



THE  
AMERICAN  
UNIVERSITY  
WASHINGTON, D.C.

Catalog 1994-1995

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# The American University Catalog

1994–1995  
Edition

*effective Fall 1994*

Washington, D.C.

# Correspondence Directory

## **Admission, Undergraduate**

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Hamilton Building  
(202) 885-6000 fax (202) 885-6014

## **Admission, Graduate**

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Hamilton Building  
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## **Alumni Relations**

Office of Alumni Relations  
Constitution Building, Tenley Campus  
(202) 885-5960

## **Employment Services**

Career Center  
Butler Pavilion 5th floor  
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## **Financial Transactions**

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Asbury Building 300  
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## **General Information**

(202) 885-1000

## **International Student Information**

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## **On-Campus Housing**

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Butler Pavilion 407, (202) 885-2633

## **Records and Transcripts**

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## **Scholarships and Loans**

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Financial Aid Building  
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## **Student Activities**

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## **University News and Media Relations**

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(202) 885-5950

## **For additional information, call, write, or visit:**

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## **Limitations on Catalog Provisions**

The educational process necessitates change. This publication must be considered informational and not binding on the university.

Each step of the educational process, from admission through graduation, requires appropriate approval by university officials. The university must, therefore, reserve the right to change admission requirements or to refuse to grant credit or a degree if a student does not satisfy the university, in its sole judgment, that he or she has satisfactorily met its requirements.

## **Equal Opportunity**

The American University provides equal opportunity for all qualified persons in its educational programs and activities. The university does not discriminate on the basis of race, color, religion, national origin, sex, age, marital status, personal appearance, sexual orientation, family responsibilities, political affiliation, source of income, veteran status, or physical handicap. The policy of equal opportunity applies to every aspect of the operations and activities of the university generally, and includes admissions and employment.



# Contents

<b>Introduction</b> . . . . .	<b>1</b>	Health and Fitness . . . . .	120
University Profile . . . . .	4	History . . . . .	121
Enrollment, 1993-1994 . . . . .	6	Interdepartmental Science . . . . .	123
Degrees Conferred, 1992-1993 . . . . .	6	Jewish Studies . . . . .	124
Fields of Study . . . . .	7	Language and Foreign Studies . . . . .	125
Academic Calendar . . . . .	9	Literature . . . . .	130
<b>Undergraduate Study</b> . . . . .	<b>11</b>	Mathematics . . . . .	133
Admission . . . . .	11	Performing Arts . . . . .	137
Degrees . . . . .	15	Philosophy and Religion . . . . .	142
Fields of Study . . . . .	15	Physics . . . . .	145
University Degree Requirements . . . . .	16	Pre-engineering . . . . .	147
Academic Standards and Regulations . . . . .	18	Prelaw . . . . .	148
University Honors and Awards . . . . .	20	Premedical . . . . .	149
<b>General Education Program</b> . . . . .	<b>23</b>	Psychology . . . . .	150
<b>Graduate Study</b> . . . . .	<b>31</b>	Sociology . . . . .	154
Admission . . . . .	31	Statistics . . . . .	159
University Degree Requirements . . . . .	38	Women's Studies . . . . .	163
Academic Standards and Regulations . . . . .	40	<b>School of Communication</b> . . . . .	<b>165</b>
<b>Nondegree Study</b> . . . . .	<b>43</b>	<b>Kogod College of Business Administration</b> . . . . .	<b>173</b>
<b>International Student Information</b> . . . . .	<b>45</b>	<b>School of International Service</b> . . . . .	<b>185</b>
<b>Tuition, Expenses, and Financial Aid</b> . . . . .	<b>49</b>	<b>School of Public Affairs</b> . . . . .	<b>203</b>
Tuition and Expenses . . . . .	49	Government . . . . .	205
Financial Aid . . . . .	52	Justice, Law and Society . . . . .	209
Graduate Financial Aid . . . . .	60	Public Administration . . . . .	214
Veterans' Benefits . . . . .	61	<b>Washington College of Law</b> . . . . .	<b>219</b>
<b>Student Life</b> . . . . .	<b>63</b>	<b>Interdisciplinary Degree Programs</b> . . . . .	<b>221</b>
Division of Student Life . . . . .	63	<b>Adult and Continuing Education</b> . . . . .	<b>231</b>
Student Organizations . . . . .	68	<b>Special University Programs</b> . . . . .	<b>237</b>
<b>Career Services</b> . . . . .	<b>71</b>	Courses of Instruction (Course Descriptions) . . . . .	243
<b>General Academic Information and Regulations</b> . . . . .	<b>73</b>	<b>Full-Time Faculty, 1993-1994</b> . . . . .	<b>377</b>
<b>College of Arts and Sciences</b> . . . . .	<b>81</b>	<b>Adjunct Faculty, 1993-1994</b> . . . . .	<b>394</b>
American Studies . . . . .	83	<b>Research Faculty, 1993-1994</b> . . . . .	<b>412</b>
Anthropology . . . . .	84	<b>Administration and Board of Trustees</b> . . . . .	<b>413</b>
Art . . . . .	87	<b>Index of Courses and Course Number Prefixes</b> . . . . .	<b>414</b>
Audio Technology . . . . .	92	<b>Index</b> . . . . .	<b>415</b>
Biology . . . . .	93	<b>Campus Map</b> . . . . .	<b>424</b>
Chemistry . . . . .	97		
Computer Science and Information Systems . . . . .	101		
Economics . . . . .	107		
School of Education . . . . .	113		



# Introduction

The programs in this catalog reflect the American University's academic tradition and its development as a comprehensive university in the nation's capital.

Incorporated in 1891 and chartered by Act of Congress in 1893, the university was founded as a Methodist-related graduate school for post-graduate study and original research. Today the American University offers a wide range of graduate and undergraduate degree programs, and non-degree study as well, through its six major divisions: the College of Arts and Sciences, which comprises twenty teaching units including the School of Education; the School of Communication; the School of Public Affairs; the School of International Service; Kogod College of Business Administration; and Washington College of Law.

## Faculty

The distinguished faculty of the American University includes renowned experts and scholars: artists, performers, novelists, scientists, business leaders, and poets of national and international reputation.

To its full-time faculty of 545, the university adds 425 adjunct faculty members drawn from Washington's professional community. A course in government at the American University might be taught by a White House aide or past presidential candidate, a communication course by a Pulitzer Prize-winning journalist, or a history course by a curator of the Smithsonian. Even heads of state have taught at the American University.

## Resources of Washington, D.C.

The resources of a capital city are unlike any other in the world. Next to government, education is the largest industry in the District of Columbia. Washington has become an important business and financial center, with more associations and trade organizations than New York City. Some 140 foreign embassies and chanceries and the headquarters of many international organizations are located in the city.

But most important, Washington is a city of learning resources in every discipline, from the arts to the sciences to public affairs. The Smithsonian Institution, the John F. Kennedy Center for the Performing Arts, the National Institutes of Health, the National Library of Medicine, the Library of Congress, the World Bank, the National Archives, the Brookings Institution, and the Chamber of Commerce of the U.S.A. are all located in the Washington, D.C. area.

The libraries, museums, and art galleries of Washington contain unsurpassed collections. These resources become sites of research, field trips, internships, cooperative education placements, and part-time jobs. Because of these resources, American University students can put their education to work as they could nowhere else in the country.

## The Campus

Massachusetts Avenue runs from the bustle of downtown Washington, through Embassy Row, by the Washington Cathedral, through wooded Glover-Archbold Park, to Ward Circle. Here on the hill where Massachusetts and Nebraska Avenues meet sits the 77-acre main campus of the American University. In a beautiful residential area, the campus is a tranquil setting for study.

Apart from, yet a part of the city, American University is a short distance from Washington's centers of government, business, research, commerce and art. The university is served by major city bus routes and a campus shuttle to a nearby subway stop.

The 37 buildings on the campus include the university library and law library, residence halls, an interdenominational religious center, a sports and convocation center, and a campus center.

The satellite Tenley Campus, located a mile from the university's main site, is the location of the Washington Semester program.

### University Library

The Jack I. and Dorothy G. Bender Library offers students over 600,000 volumes, 770,000 microforms, 1,400 film and video titles, and 3,000 periodical titles. In addi-

## 2 Introduction

tion, musical scores and recordings are available in the Music Library in Kreeger Building. The reference collection in Bender Library includes atlases, encyclopedias, directories, guides, and bibliographies and periodical indexes in both print and CD-ROM formats. Reference librarians assist in finding information, conduct online bibliographic searches, and offer instruction for library use to students.

Bender Library offers quiet study spaces as well as group study rooms and study space with a separate entrance that is open 24 hours a day.

Special collections include the American University Archives, rare books, and manuscripts. Examples are the Artemus Martin Collection of materials on mathematics and the Spinks Collection of Japanese materials.

All students are encouraged to inquire at Bender Library about the availability of research materials before going to other libraries.

The American University is a member of the Washington Research Library Consortium (WRLC), all of whose holdings are listed in ALADIN, the online catalog with over 2.2 million records. American University students may borrow material from the six other WRLC libraries.

The library is a member of the OCLC library network, which provides online access to bibliographic information on over 27 million items in 10,000 libraries.

### Science Laboratories

Laboratory facilities in the Beeghly Chemistry Building include modern teaching and research laboratories as well as a computer room, a dark room, a controlled temperature room, instrument rooms, and an animal facility. The Department of Chemistry is equipped with standard chemical instrumentation, including spectrometers (FTNMR, FTIR, UV-VIS, GCMS, AA) and chromatographic equipment (GC, HPLC, SCFC). Specialized laboratories have been established for research in biochemistry, polymer chemistry, and carbohydrate chemistry, and for work requiring an inert atmosphere. Graduate and undergraduate students are involved in a variety of research projects using the facilities of the department or through cooperative agreements with many governmental laboratories.

Research facilities of the Department of Physics, housed in the McKinley Building, include general and advanced laboratories, a DEC workstation, electronics and audio technology equipment, a recording studio, an electronic music studio, a machine shop, and Mossbauer, critical phenomena, kinetic molecular, and laser laboratories. Nuclear research is carried out under a cooperative arrangement with the Stanford Linear Accelerator Center.

The undergraduate teaching laboratories of the Department of Biology were recently remodeled with new equipment and modern instrumentation. Laboratories used for upper-level courses, graduate courses, and research are well equipped and are continually upgraded. Students have the opportunity to gain experience with a wide variety of techniques including scientific methodology and experimental design, nucleic acid isolation, protein and nucleic acid design, electrophoresis, bacteria and primary cell structure, electrophysiology, immunohistochemistry, fluorescence microscopy, histology, aseptic technique, and quantitative genetic analysis. The facilities in the Department of Biology and cooperative agreements with various government laboratories make possible opportunities for

research in environmental, ecological, and biomedical sciences.

### Computing Center

The computing center serves the research and instructional needs of both faculty and students for micro and mainframe computing resources. Services are available 24 hours a day. There are no charges to registered students for academic use of the resources.

Two mainframe computers, an IBM 3090 and an IBM ES/9000, are accessible through telephone modem or in on-campus laboratories. Microcomputers are available in eleven computer laboratories across campus, all supported with technical staff to assist in using a broad range of standard applications. Specialized laboratories are available for students of business, law, psychology, writing, computer science, foreign languages, communication, and social science research.

Throughout the year the center and labs offer free training classes on using the university's hardware and software. The center also operates a hotline service offering telephone and walk-in trouble-shooting assistance for standard software packages.

All residence hall rooms are wired for a local area network (LAN) enabling those with personal computers to communicate electronically with faculty and students and to access university-provided applications software, the university library catalogue, the mainframe computer, and Bitnet and Internet networks.

### Language Resource Center

The language resource center in the Asbury Building can serve up to ninety students simultaneously using audio, video, slides, and computer-assisted instruction. This facility of the Department of Language and Foreign Studies is open to the entire university community for instruction and research involving both languages and educational media.

The center's varied services include the following: self-paced instructional programs in Chinese, English, French, German, Hebrew, Italian, Japanese, Russian, and Spanish; free tutoring for students enrolled in foreign language courses; and state-of-the-art computerized teaching labs providing interactive learning.

### Media Center

The Media Center operates the Mark Wechsler Theater, a 100-seat screening room that affords an intimate setting for nightly offerings of classic and contemporary cinema. The center is also a full-scale audio-visual resource facility providing administrative and technical support for the film studies and production courses offered by the Department of Literature and the School of Communication. Housed within the center are a selective film and video collection, reference works, film catalogues, and files of film-related material. The center frequently sponsors special events such as film festivals, guest filmmakers, seminars, premier screenings, and the annual Student Visual Media Festival, as well as facilitating events sponsored by embassies, film societies, and nonprofit organizations and associations. The projection facilities are fully equipped for 16- and 35mm film, as well as large screen video in five formats,

laserdisc, and computer multimedia projection. A biannual film calendar is published at the beginning of each semester. The Media Center is located in room 319 of the Mary Graydon Center.

### **Music, Dance, and Theatre Facilities**

The Kreeger Building, housing the Department of Performing Arts, has a chamber-music recital hall seating 130, a large rehearsal space, and twenty-five practice rooms, twenty of them with pianos. Also housed within the building is the record-score collection administered by the university library. It has facilities for TV tape viewing and record, CD, and tape listening. Available through the university library and music library are over 10,000 volumes of music scores and books and over 10,000 disc recordings. Housed elsewhere in the building is a large collection of choral, orchestral, jazz, and symphonic scores.

The Experimental Theatre, where plays, musicals, and dance concerts are performed, serves as the mainstage facility for the Department of Performing Arts. Downstairs in the same building are the production office and the scene shop, where sets are built. The costume office, shop, and storage facilities are located to the rear of Asbury building. Costumes are designed and created here for all department productions.

Cassell Center is home to most dance classes and a dance office, and is equipped with mirrors, barres, and dance floors. Aside from the dance studio, there are studios and rehearsal facilities for visual artists, and a small studio space for acting classes and informal performances. Dance classes are also held in Butler Learning Center in room 104, which is equipped with a dance floor, mirrors, and barres.

### **Art Facilities**

The Art Department is housed in the Watkins Building, with additional classrooms and studio space in the Cassell and McKinley Buildings. There are classrooms with special equipment to handle drawing, painting, printmaking, etching, sculpture, design, and ceramics classes as well as art history classes. Individual studios are provided for all M.F.A. students, and semi-private workspaces are provided for undergraduate studio art majors. The department also maintains the Watkins Gallery, a long-established gallery with changing exhibitions, including the Watkins Collection and works by faculty, students, and other artists.

### **WAMU-FM Radio**

WAMU 88.5 FM is a 24 hour, 50,000 watt public radio station, licensed to the American University since 1961. It ranks among the top ten public radio stations in the country. WAMU serves more than 450,000 listeners in Virginia, Maryland, and the District of Columbia with news, talk programming, and traditional American music. WAMU is a not-for-profit radio station. Its support comes from the American University, local businesses, the Corporation for Public Broadcasting, and over 30,000 individual listener subscribers. Although WAMU-FM is professionally staffed, some part-time employment opportunities are available to students in the business and development offices.

### **Athletics**

The American University is a Division I NCAA school, and a member of the Colonial Athletic Association, offering fifteen intercollegiate sports. The women's sports offered include tennis, basketball, volleyball, field hockey, lacrosse, cross country, swimming and diving, and soccer. The men's sports offered include tennis, basketball, wrestling, golf, cross country, swimming and diving, and soccer.

Our competitors in the Colonial Athletic Association include the College of William and Mary, Old Dominion University, East Carolina University, the University of North Carolina at Wilmington, James Madison University, George Mason University, and University of Richmond.

All students are welcome to try out for the teams, and all competitions are open to students free of charge. The Department of Athletics and Recreation also sponsors a full range of intramural sports, which are open to all students.

### **Recreational Facilities**

The university maintains on-campus facilities for a variety of recreational activities. The Sports Center has a natatorium with two pools, two weight rooms, a wrestling and exercise room, two racquetball courts, two squash courts, four basketball courts, two volleyball courts, and a jogging track.

Outdoor facilities include tennis courts and an all-purpose intramural and recreational field.

### **National Center for Health Fitness**

The National Center for Health Fitness (NCHF) provides leadership for the nation in the areas of health risk identification and lifestyle improvement. The NCHF offers a full spectrum of health fitness services including the design, implementation, management, and evaluation of worksite health promotion. The NCHF operates two off-campus worksite health promotion centers, which are staffed by the graduate students in the Health Fitness Management Program. This Master of Science program is closely related to the NCHF and is tailored to produce health fitness professionals for business, government, and industry. The state-of-the-art research done by the NCHF in worksite health promotion has resulted in comprehensive empirical and literature databases that serve as resources for researchers in several different disciplines, including behavioral sciences, life sciences, and economics.

### **The Consortium of Universities**

The Consortium of Universities of the Washington Metropolitan Area combines the resources of ten area universities and two colleges. American University students may take courses for residence credit at any consortium institution and graduate students may borrow from any consortium library. In addition, the consortium sponsors student loan programs, the Consortium Research Fellows program, the Center for Advanced Studies of the Americas (CASA), D.C. Law Students in Court (DCLSIC), and the National Institute for Citizen Education in the Law (NICEL).

## 4 Introduction

### Child Development Center

The American University Child Development Center, located on campus, provides a stimulating atmosphere for children between 2½ and 5 years old. Children of students, faculty, and staff may be enrolled in a full-day or part-time program. The teachers, who are highly qualified, provide activities based on the socio-emotional, physical, and intellectual development of the child.

In addition, the center offers students from all disciplines a place to observe, create, and test theories that involve children. The center also offers work-study experience to undergraduates interested in children.

For more information, call the Child Development Center at (202) 885-3330.

## On-Campus Services

### Banking and Stores

A local bank operates a branch office and two automatic teller machines in the Butler Pavilion Promenade and another ATM in Clark Hall.

The Eagle's Nest carries food, magazines, newspapers, and toiletry items. Other stores and services in the Butler Pavilion include a copy center, mailbox service, dry cleaner, pizza restaurant, travel agent, and hair salon.

### Campus Store

The campus bookstore, located on the second and third floors of the Butler Pavilion, carries all required textbooks, a large selection of other books, all necessary supplies and stationery, American University sportswear, and other items.

### Office of Student Accounts

Following admission to the university, students handle all financial transactions with the university through the Office of Student Accounts, located in Asbury Building, room 300.

### Dining Services

The contract dining room, the University Club dining room (for faculty and staff), cafeteria, snack bar, tavern, carry-out, and food vending machines are located in Mary Graydon Center. There is also a contract dining facility on the Tenley Campus. Various meal plan options are offered on a semester basis.

### Mail Service

All university mail delivery is handled by Mail Services. The university maintains a full service United States Post Office contract substation, Eagle Station, located in Letts Hall, lower level. Mail boxes are in each dormitory and are furnished to all resident students.

### Transportation and Parking

Parking on university property is by permit only from 8:00 a.m. until 5:00 p.m. Vehicles must be registered with the Parking and Traffic Office in Rockwood Building and must display a valid parking permit. All faculty, staff, and students must register their vehicles by the end of the first

day of classes of the fall term. Vehicles brought to campus during the term must immediately be registered at the Office of Parking and Traffic in the Rockwood Building. Freshmen, sophomores, Washington Semester students, Nebraska Hall residents, and residents who did not receive a permit through the lottery process are not permitted to have vehicles on campus or park in Neighborhood Advisory Committee zones 3D and 3E. Visitors can park in metered parking areas or purchase a permit from the Parking and Traffic Office. Drivers on campus must observe the university's parking and speed-limit regulations, copies of which are available from the Parking and Traffic Office.

Parking spaces are provided for persons with physical disabilities. Temporary permits are available to persons having temporary disabilities. A doctor's certification may be required. To apply for an access decal, consult the Office of Disability Services in the Mary Graydon Center, telephone (202) 885-3315 (voice) or TDD (202) 885-3318, or call the Parking and Traffic Office at (202) 885-3110.

The university is accessible by Metrobus and Metrorail. A free shuttle bus service is available to students, faculty, and staff to Tenley Campus, the Tenleytown Metrorail station, and to the Glover-Tunlaw off-campus apartments.

## University Profile

### Historical Origins

Incorporated in 1891; chartered by Act of Congress in 1893 as a Methodist Church-related institution. First building completed in 1898; first graduating class, 1916

### Character

Independent, coeducational

### Location

Residential area of Northwest Washington, D.C.

### Academic Programs

59 Bachelor's programs  
63 Master's programs  
15 Doctoral programs  
J.D. and LL.M.

An Associate degree program and undergraduate and graduate certificate programs are also offered.

### Academic Divisions

College of Arts and Sciences: twenty teaching units including the School of Education  
Kogod College of Business Administration  
School of Communication  
School of International Service  
School of Public Affairs: Departments of Government; Justice, Law and Society; and Public Administration  
Washington College of Law

## Special Programs

Cooperative education and internships, career education and placement on undergraduate and graduate levels

Study abroad programs: undergraduate opportunities for short-term or extended study in South America, Asia, and Western and Eastern Europe in language, politics, business, justice, and economics

Washington Semester programs: peace and conflict resolution, American politics, foreign policy, economic policy, justice, journalism, and international business and trade

Consortium of Universities of the Washington Metropolitan Area: courses not offered by the American University may be taken for credit, by special arrangement, at any one of eleven other Washington, D.C. area colleges and universities

Adult and Continuing Education: assessment of experiential learning and adult degree-completion programs; professional master's programs on evenings and weekends; graduate, undergraduate, and noncredit certificates and seminars

## Calendar

Two semesters, summer sessions

## Student/Faculty Ratio (1992-93)

15:1

## Number of Faculty

548 full-time faculty, 92 percent of whom hold a doctoral degree or the highest degree in their field; 450 adjunct faculty (most of whom are professionals working in their subject fields)

## Freshman Profile

The fall 1993 entering freshman class had an average combined SAT score of 1133; 66 percent of these 1,094 freshmen had a high school grade point average of 3.00 or above.

## Financial Aid

Approximately 60 percent of the student body receives some form of financial aid.

## Facilities/Physical Plant

The 77-acre main campus and the 8-acre Tenley satellite campus are within one mile of each other. Facilities include administrative/academic buildings, housing for 3,550, an interdenominational religious center, specialized natural science facilities, a computing center open 24 hours a day, 11 other computer laboratories around campus, radio and TV studios, recital halls, and a small theatre.

The university's multi-purpose Sports and Convocation Center has several components: The Abbey Joel Butler Pavilion, housing the campus store and other shops and services, the Offices of the Division of Student Life and the Career Center, a parking garage, the Jack L.

Bender Arena, and the John M. Reeves Aquatic Complex. The center accommodates health/fitness classes, recreation and intramurals, commencement ceremonies, sports competitions, conferences, major speeches, alumni gatherings, and special events.

## Student Services

Career Center; Child Development Center; Disability Support Services; Information and Off-Campus Housing Resource Center; Kay Spiritual Life Center; International-Intercultural Student Services; Multicultural Affairs; Psychological and Learning Services; Residential Life and Housing Services; sexual discrimination, harassment, and assault assistance; and Student Health Center

## Library

600,000 volumes; 770,000 microforms; 3,000 periodicals; 1,400 films and videos; online databases through BRS, Dialog, and others

Students also have access to holdings at many libraries in Washington, D.C.; graduate degree students may have borrowing privileges at other college and university libraries in the Washington consortium

## Law Library

175,000 volumes; 835,000 microforms; 5,800 serial subscriptions; on-line databases include Lexis, Westlaw, BRS, Dialog, Autocite, Vutext data bases

## Extracurricular activities

Wide range of clubs and organizations, fraternities and sororities, and varsity, recreational, and intramural sports

## Residence Halls

Seven residence halls on the main campus accommodate 3,000 students each year. Three residence halls on the Tenley Campus provide housing for 425 Washington Semester students. On-campus living is optional. There are a variety of housing options available on campus; including graduate student, upperclass, and intercultural residence halls. There are also several special interest floors available in the residence halls.

An apartment building housing 125 graduate students is located within a mile of the campus.

## Admission

Freshman: based on secondary school record, SAT or ACT scores, and relevant achievement tests for some fields, and recommendations; early-decision admission offered

Transfer: secondary and/or college records, SAT scores

Graduate: bachelor's degree from accredited institution, undergraduate and graduate records, grade point average (GPA), and other standards where applicable

## 6 Introduction

### Accreditation

The American University is accredited by the Middle States Association of Colleges and Secondary Schools. It is recognized by the National University Extension Association, the Adult Education Association of the U.S.A., and the University Senate of the United Methodist Church.

A number of programs are also individually accredited by, or are members of, professional organizations, including:

- Department of Chemistry: American Chemical Society
- School of Communication: Accrediting Council on Education in Journalism and Mass Communication
- School of Education: National Council for Accreditation of Teacher Education and the National Association of State Directors of Teacher Education and Certification (both elementary and secondary)

- The School of International Service: member of the Association of Professional Schools of International Affairs
- Kogod College of Business Administration: accredited by the American Assembly of Collegiate Schools of Business (AACSB)  
Department of Accounting programs are also accredited by AACSB
- Department of Performing Arts: division of music; member of the National Association of Schools of Music
- Department of Psychology: doctoral training program in clinical psychology; American Psychological Association
- School of Public Affairs: institutional member of the National Association of Schools of Public Affairs and Administration; member of the Academy of Criminal Justice Sciences
- Washington College of Law: American Bar Association and Association of American Law Schools

## 1993-1994 Academic Year Enrollment

Full-time undergraduates . . . . .	4,880
Part-time undergraduates . . . . .	510
Full-time and part-time graduate students (including Washington College of Law) . . . . .	5,085
Nondegree students . . . . .	1,233
<i>Total</i> . . . . .	11,708

## Degrees Conferred 1992-1993

<i>College/School</i>	<i>Associate</i>	<i>Bachelor's</i>	<i>Master's</i>	<i>Ph.D.</i>	<i>Ed.D.</i>	<i>J.D.</i>	<i>Total</i>
College of Arts and Sciences	4	501	508	52	2	—	1,067
Kogod College of Business Administration—	—	221	181	—	—	—	402
School of International Service	—	289	159	10	—	—	458
School of Public Affairs	—	192	180	6	—	—	378
Washington College of Law	—	—	101	—	—	282	383
<i>University Total</i>	4	1,203	1,129	68	2	282	2,688

In 1992-1993, the graduation rate for undergraduate students who entered The American University as full-time freshmen in fall 1988 was 67.7%.



# Fields of Study

## Undergraduate Degrees

Accounting (B.S.B.A.)  
 American Studies (B.A.)  
 Anthropology (B.A.)  
 Art History (B.A.)  
 Audio Technology (B.S.)  
 Biology (B.S.)  
 Chemistry (B.S.)  
 Communication: Journalism (B.A.)  
 Communication: Public Communication (B.A.)  
 Communication: Visual Media (B.A.)  
 Computer Information Systems (B.S.)  
 Computer Science (B.S.)  
 Design (B.A.)  
 Distributed Science (B.S.)  
 Economic Theory (B.A.)  
 Economics (B.A.)  
 Elementary Education (B.A.)  
 Environmental Studies (B.A.)  
 Finance (B.S.B.A.)  
 Fine Arts (B.F.A.)  
 Foreign Language and Communication Media (B.A.)  
 French Studies (B.A.)  
 German Studies (B.A.)  
 History (B.A.)  
 Interdisciplinary Studies (B.A., B.S.)  
 Interdisciplinary Studies: Communication, Legal  
   Institutions, Economics, and Government (B.A.)  
 International Business (B.S.B.A.)  
 International Studies (B.A.)  
 Jewish Studies (B.A.)  
 Justice (B.A.)  
 Language and Area Studies:  
   French/Europe (B.A.)  
   German/Europe (B.A.)  
   Russian/Area Studies (B.A.)  
   Spanish/Latin America (B.A.)  
 Law and Society (B.A.)  
 Liberal Studies (B.A.)  
 Literature (B.A.)  
 Literature: Cinema Studies (B.A.)  
 Management (B.S.B.A.)  
 Marketing (B.S.B.A.)  
 Mathematics (B.S.)  
 Mathematics, Applied (B.S.)  
 Music (B.A.)  
 Performing Arts: Music Theatre (B.A.)  
 Performing Arts: Theatre (B.A.)  
 Philosophy (B.A.)  
 Physics (B.S.)  
 Political Science (B.A.)  
 Psychology (B.A.)  
 Real Estate and Urban Development (B.S.B.A.)  
 Religion (B.A.)  
 Russian Studies (B.A.)  
 Sociology (B.A.)

Spanish Studies (B.A.)  
 Statistics (B.S.)  
 Studio Art (B.A.)

## Minors

American Studies  
 Anthropology  
 Applied Anthropology  
 Art History  
 Audio Technology  
 Biology  
 Business Administration  
 Chemistry  
 Cinema Studies  
 Communication  
 Computer Information Systems  
 Computer Science  
 Dance  
 Design  
 Economics  
 Education Studies  
 Environmental Science  
 French Language  
 German Language  
 History  
 Interdisciplinary Studies  
 International Studies  
 Jewish Studies  
 Justice  
 Language and Area Studies:  
   French/Europe  
   German/Europe  
   Japanese/Asia  
   Russian/Area Studies  
   Spanish/Latin America  
 Literature  
 Mathematics  
 Music  
 Philosophy  
 Physics  
 Political Science  
 Psychology  
 Public Administration  
 Quantitative Methods  
 Religion  
 Russian Language  
 Russian Studies  
 Sociology  
 Spanish Language  
 Special Education  
 Statistics  
 Studio Art  
 Theatre  
 Women's Studies

## Graduate Degrees

- Accounting (M.B.A., M.S.)
- Anthropology (M.A., Ph.D.)
- Anthropology, Applied (M.A.)
- Art History (M.A.)
- Biology (M.A., M.S.)
- Business Management Information Systems (M.B.A.)
- Chemistry (M.S., Ph.D.)
- Communication: Journalism and Public Affairs (M.A.)
- Communication: Public Communication (M.A.)
- Computer Science (M.S.)
- Counseling and Development (Ed.D., Ph.D.)
- Creative Writing (M.F.A.)
- Development Banking (M.A.)
- Development Management (M.S.)
- Economic Development Management (M.B.A.)
- Economics (M.A., Ph.D.)
- Economics, Applied (M.A.)
- Education: Educational Administration (M.A.)
- Education: International Education (M.A.)
- Education: Special Education:
  - Learning Disabilities (M.A.)
- Education: Specialized Studies (M.A.)
- Educational Administration (Ed.D., Ph.D.)
- Elementary Education (M.A.)
- Entrepreneurship and Management (M.B.A.)
- Film and Video (M.A.)
- Finance (M.B.A.)
- French Studies (M.A.)
- Health/Fitness Management (M.S.)
- History (M.A., Ph.D.)
- History of Religions: Hindu Tradition (M.A.)
- Organization Development (M.S.O.D.)
- Human Resource Management (M.B.A.)
- Information Systems (M.S.)
- Interdisciplinary Studies (M.A., M.S.)
- International Affairs: Comparative and Regional Studies (M.A.)
- International Affairs: International Economic Policy (M.A.)
- International Affairs: International Politics (M.A.)
- International Affairs: U.S. Foreign Policy (M.A.)
- International Business (M.B.A.)
- International Communication (M.A.)
- International Development (M.A.)
- International Legal Studies (LL.M.)
- International Relations (Ph.D.)
- Justice, Law & Society (M.S.)
- Law (J.D.)
- Law and Business (J.D./M.B.A.)
- Law and International Affairs (J.D./M.A.)
- Law and Justice (J.D./M.S.)
- Literature (M.A.)
- Marketing (M.B.A.)
- Mathematics (M.A.)
- Mathematics, Applied (M.A.)
- Mathematics Education (Ph.D.)
- Music (M.A.)
- Painting (M.F.A.)
- Performing Arts: Arts Management (M.A.)
- Performing Arts: Dance (M.A.)
- Personnel and Human Resource Management (M.S.)
- Philosophy (M.A.)
- Philosophy and Social Policy (M.A.)
- Physics (M.S., Ph.D.)
- Political Science (M.A., Ph.D.)
- Printmaking (M.F.A.)
- Psychology (M.A., Ph.D.)
- Psychology, General (M.A.)
- Public Administration (M.P.A., Ph.D.)
- Public Financial Management (M.P.F.M.)
- Real Estate and Urban Development (M.B.A.)
- Russian Studies (M.A.)
- Sculpture (M.F.A.)
- Secondary Education (M.A.T.)
- Sociology (M.A., Ph.D.)
- Sociology, Applied (M.A.)
- Sociology: Justice (Ph.D.)
- Spanish Studies (M.A.)
- Statistical Computing (M.S.)
- Statistics (M.S., Ph.D.)
- Statistics for Policy Analysis (M.S.)
- Taxation (M.S.)
- Teaching English to Speakers of Other Languages (M.A.)
- Toxicology (M.S.)

## Academic Calendar 1994–1995

### Fall 1994

March 28–July 29	Advance registration (with billing) for Fall 1994
August 1–26	Direct registration (with payment) for Fall 1994
August 29	Fall 1994 semester begins
September 5	Labor Day holiday; no classes, university offices closed
October 31–December 2	Advance registration (with billing) for Spring 1995
November 24–27	Thanksgiving holiday; no classes, university offices closed
December 5	Direct registration (with payment) for Spring 1995 begins
December 7	Classes end
December 8–9	Study days
December 10–16	Final examinations

### Spring 1995

January 13	Direct registration (with payment) for Spring 1995 ends
January 16	Martin Luther King, Jr. Day; no classes, university offices closed
January 17	Spring 1995 semester begins

January 29	Winter Commencement
March 11–19	Spring break
May 1	Classes end
May 2–3	Study days
May 4–10	Final examinations
May 14	Spring Commencement

### Summer 1995

May 15	First six- and seven-week summer sessions and three-week and ten-week summer sessions begin
May 29	Memorial Day holiday; no classes, university offices closed
June 2	Three-week session ends
June 23	First six-week session ends
June 30	First seven-week session ends
July 3	Second six- and seven-week sessions begin
July 4	Independence Day holiday; no classes, university offices closed
July 21	Ten-week session ends
August 11	Second six-week session ends
August 18	All remaining sessions end



# Undergraduate Study

## Admission

### Application for Admission

Application for admission to undergraduate degree programs may be made for any fall, spring, or summer term. The applicant is required to submit the application form and a nonrefundable application fee of \$45. Forms may be obtained by writing or telephoning the Office of Admissions and Financial Aid at (202) 885-6000.

Applications and all supporting documents must be on file in the Office of Admissions and Financial Aid by the following dates:

#### Freshman

<i>Fall</i> (U.S. and International)	
Early Decision	November 15
General Admission	February 1
<i>Spring</i> (U.S.)	December 1
International	October 1
<i>Summer</i> (U.S.)	April 15
International	March 1

#### Transfer

<i>Fall</i> (U.S.)	July 1
(February 1 to be considered for financial aid)	
International	May 1
<i>Spring</i> (U.S.)	November 1
International	October 1
<i>Summer</i> (U.S.)	April 1
International	March 1

The applicant is responsible for requesting that official transcripts and test scores be sent directly from the issuing institutions to the American University, Office of Admissions and Financial Aid.

Applications received after the deadline will be considered for the intended program of study as long as class

space remains and if it is possible to receive and process the necessary documents in time for registration.

Transfer applicants must request each collegiate institution previously attended to send directly to the Office of Admissions an official transcript of all work completed. Attendance at all institutions must be reported *whether or not credit was earned* and whether or not transfer credit is desired. Failure to report all previous academic work will be considered sufficient cause for rejection of an application or for dismissal from the university.

#### Early Admission

The American University offers the opportunity for admission a year earlier than normal to freshman applicants whose ability, academic achievement, and general maturity indicate that they are ready to begin collegiate work. Applicants are considered on their own merit. However, major factors important to evaluation are:

1. The secondary school record, with special reference to grades achieved and the pattern of courses taken;
2. Performance on the Scholastic Aptitude Test (SAT) or the American College Test (ACT);
3. The recommendation of the secondary school principal or counselor and two teacher recommendations;
4. A letter from the applicant stating the reasons for seeking early admission;
5. Possibly, an interview with a screening committee.

#### Early Decision

Freshman applicants whose first choice is the American University are encouraged to apply as early decision candidates. Students admitted under the early decision plan learn of their admission by December 30 and receive first consideration for housing, financial aid, and course selection. The university, in turn, is assured that these students will enroll if admitted.

The deadline for applying for early decision is November 15, at which time all documents, including the \$45 application fee, must be on file with the Office of Admissions and Financial Aid. Early decision applicants may initiate applications to other schools before notification, but if they

## 12 Undergraduate Study

are admitted to the American University as early decision candidates, they must submit a tuition deposit and withdraw all applications to other colleges and universities.

Early decision applicants are evaluated by the same criteria as all other freshman applicants. They may be admitted to the university in December, denied admission, or have their application deferred until the general admission reply date of April 1. Students deferred until April are released from the commitment to attend if admitted.

### Campus Visits and Interviews

Prospective students are invited to visit the university but are not required to do so. Students are asked to make an appointment with the Office of Admissions and Financial Aid three weeks in advance if by mail, two weeks if by telephone.

Prospective freshmen participate in small-group conferences conducted by an admission counselor, who will review admission policy and procedure and answer questions about the university. Applicants should be prepared to complete a brief description of their academic qualifications, i.e., academic average, standardized-test scores, and rank in class. Individual interviews are also conducted, however, an interview is not required prior to admission.

Campus tours are usually available for visitors before the conference. However, during holiday periods when the university is not in session, it may not be possible to gain access to classroom buildings and residence halls, and tour guides may not be available. At those times the university offers visitors a self-guided campus tour.

Students attending another college or university who are interested in transferring to the American University may make appointments in advance for a campus tour and small-group conference tailored specifically to transfer student interests.

The Office of Admissions and Financial Aid is usually able to arrange classroom visits for prospective students when the request has been made well in advance. However, a visitor may attend classes with a friend enrolled at the university if permission of the professor has been granted in advance.

The Office of Admissions and Financial Aid will make every effort to arrange overnight accommodations for prospective students in university residence halls. Visitors requesting overnight housing are asked to telephone the admissions office at least two weeks in advance. The admissions office can also provide a list of motels and hotels convenient to the campus.

### Notice of Admission

General and early admission applicants whose applications and supporting documents have been received by the Office of Admissions and Financial Aid by February 1 are notified of the decision on their applications by April 1.

Early decision applicants are notified of the decision by December 30; at that time early decision applicants may be admitted, denied admission, or deferred until the general admission date of April 1.

Transfer applicants are notified of decisions as they are made.

Full-time undergraduates entering in the fall semester are required to pay a nonrefundable tuition deposit to reserve a place in the class.

Complete detailed instructions for replying to the admission offer are furnished with the notice of acceptance.

### Learning-Disabled Program

The American University offers a support program for learning-disabled students admitted as freshmen. Freshmen applicants should follow regular admissions procedures for the university. Those interested in the support program should also request a supplementary application for the Learning Services Program from the Center for Psychological and Learning Services.

There is no formal program for upperclassmen, transfer students, or graduate students, but there are support services available. To receive more information about the freshman program or about support services, write the Center for Psychological and Learning Services, American University, 4400 Massachusetts Avenue, NW, Washington, DC 20016, or call (202) 885-3360.

## Freshman Admission Requirements

A graduate of an approved secondary school who has completed fifteen academic units—including at least four units in English, three units in college preparatory mathematics, including the equivalent of two units in algebra, and two units of foreign language—will be considered for freshman standing.

The following standardized tests should be taken as early as possible; applicants should request that official score reports be sent directly to the Office of Admissions and Financial Aid.

1. Scholastic Assessment Test I (SAT I) or American College Test (ACT) (required)
2. SAT II, in English Composition (recommended for placement).
3. SAT II, in a Foreign Language: Applicants who plan to continue the study of a foreign language that was begun in secondary school may wish to submit scores on the appropriate test to be used in placing the student at the proper level of work. The test should be taken as early as January if possible, but no later than May for fall admission.
4. SAT II, in Mathematics (Level I or Level II): It is recommended that the test be taken by any freshman applicant whose intended major program of study will require the completion of course work in mathematics or statistics. A score of 650 in Math II will meet the university's College Mathematics Requirement.

Additional SAT II test scores may be submitted at the discretion of the applicant.

The American University requires all applicants whose first language is not English, regardless of citizenship, to take an English language proficiency examination. Applicants may take the Test of English as a Foreign Language (TOEFL) or the English Language Institute placement test (offered on the American University campus). TOEFL results should be sent directly to the university from the Educational Testing Service.

### Equivalency Diploma

Holders of equivalency diplomas issued by state departments of education are eligible for consideration as freshmen but are subject to an entrance examination such as the SAT, ACT, or the School and College Ability Test (SCAT) at the request of the Office of Admissions and Financial Aid.

Veterans or current members of the armed forces who have taken the General Education Development Test (GED), the Comprehensive College Test, or the General Examinations of the College Level Examination Program (CLEP) should apply to their state departments of education for equivalency diplomas. Official certification of the diploma should be sent by the state department of education directly to the Office of Admissions and Financial Aid.

### Advanced Placement

Admitted freshmen may earn advanced-standing credit which may be used toward degree requirements. Credit may be earned in a combination of the Advanced Placement and CLEP programs, but duplicate credit will not be given.

In some secondary schools, enriched courses are offered under the College Entrance Examination Board's Advanced Placement program. On the basis of scores achieved in the special examinations given, the applicant may be granted actual college credit or advanced placement in courses. A maximum of 30 credit hours earned on this basis may be applied towards a bachelor's degree.

### College Level Examination Program (CLEP)

Credit may be earned for superior performance in the following Subject Examinations:

- American Government
- American Literature
- Analysis and Interpretation of Literature plus essay
- Biology
- Calculus with Elementary Functions
- College Composition
- College French—levels 1 and 2
- College German—levels 1 and 2
- College Spanish—levels 1 and 2
- Computers and Data Processing
- Educational Psychology
- English Literature plus essay
- General Chemistry
- General Psychology
- Human Growth and Development
- Introduction to Management
- Introductory Accounting
- Introductory Marketing
- Introductory Macroeconomics
- Introductory Microeconomics
- Introductory Sociology
- Test and Measurement

Three credit hours may be awarded for each Subject Examination score of 75% or higher; however, general chemistry and biology examinations will be awarded eight credit hours each. Foreign language examinations can be awarded a maximum of three credit hours per language, provided that no previous credit has been earned in that foreign language. Examination levels 1 and 2 must be taken for each foreign language and will be awarded a total

of three credits. Students may not retake a Subject Examination under any circumstances.

The university's College Mathematics Requirement may be satisfied by the CLEP Calculus examination. The CLEP College Composition Examination will satisfy one semester of the university's College Writing requirement; however, College Writing Seminar (23.101) and the English Competency Examination or College Writing (23.100) must be completed to satisfy the entire requirement.

Selected CLEP examinations may be applied to up to four courses to meet General Education requirements in any of the five curricular areas. Credit toward General Education requirements may be awarded only for those examinations taken prior to entering the American University.

Credit may be earned in a combination of the Advanced Placement and CLEP programs, but duplicate credit will not be given. A bulletin of information for candidates may be requested from: College Level Examination Board, Box 1821, Princeton, New Jersey 08540.

Students should consult their advisers to discuss which examination would be appropriate and how the credit will fit into their degree programs. Subject Examinations can be scheduled in the Psychological and Learning Services office, Mary Graydon Center, room 201. When registering for examinations, have scores sent to: Records Services Unit, Office of the Registrar, The American University, 4400 Massachusetts Ave., NW, Washington, DC 20016.

From time to time, additional subject-matter examinations are added to those listed above. For complete details on the CLEP at The American University, contact the Records Services Center, Office of the Registrar.

## Transfer Admission Requirements

To be considered for transfer admission, applicants normally should have maintained at least a 2.00 grade point average (on a 4.00 scale) or the equivalent at an AQ-rated regionally accredited institution or a Recognized Candidate for Accreditation or at least a 3.00 average from an AP-rated regionally accredited institution. Transfer applicants should be in good academic and social standing at the school previously attended.

Transfer applicants with fewer than 24 hours of credit completed at the time of application should also submit the secondary school record and standardized-test scores.

Applicants to the School of International Service should have maintained a minimum 3.00 grade point average (on a 4.00 scale). Applicants to the School of Communication should have a minimum 2.50 grade point average. Applicants to the School of Education should present a minimum 2.70 grade point average.

Transfer applicants who are also applying for financial aid should submit their admissions applications and supporting documents by February 1 for fall entrance.

The American University requires all transfer applicants whose first language is not English, regardless of citizenship, to take an English language proficiency examination. Applicants may take the Test of English as a Foreign Language (TOEFL) or the English Language Institute placement test (offered on the American University campus).

## 14 Undergraduate Study

TOEFL test results should be sent directly to the university from the Educational Testing Service.

### Transfer of Credit

The Office of Admissions evaluates official documents showing previous college-level work completed. Individual colleges determine how this credit will apply to specific degree programs.

Grades and quality points earned in courses accepted for transfer will not be included in the grade point average to be maintained at the American University, but the credits will count toward the total number required for graduation.

Transfer students may normally expect to receive credit for courses taken at collegiate institutions that were, at the time the courses were taken, regionally accredited or Recognized Candidates for Accreditation. These courses must have been completed with grades of C or better from an AG-rated institution or B or better from an AP-rated institution and must be appropriate for academic credit at the American University towards an undergraduate degree program. A maximum of 75 credit hours will be accepted on transfer from four-year collegiate institutions as designated above. A maximum of 60 credit hours will be accepted from a two-year collegiate institution as designated above.

A maximum of 30 credit hours, or the equivalent, may be accepted on transfer for a combination of relevant work completed satisfactorily in Armed Services School courses or any Military Occupational Skills (MOS) completed with a grade of 70 or better, both as recommended for baccalaureate credit by the American Council on Education or for associate or baccalaureate credit as recommended by the Defense Activity for Non-Traditional Educational Support (formerly United States Armed Forces Institute).

A maximum of 30 credit hours may be granted for a combination of relevant work completed in (a) college-level nondegree, extension, or correspondence courses with grades of C or better offered through an AG-rated institution, or from an AP-rated institution with a grade of B or better, provided the coursework is recognized by that institution for credit towards a degree and is appropriate for academic credit as understood by the Office of Admissions after consultation with the appropriate academic unit where necessary; (b) noncollegiate (but not Armed Forces) organizations that are recommended at the baccalaureate level by the American Council on Education.

Transfer students may be awarded credit for satisfactory scores in subject-matter tests of the College Level Examination Program. Students may not receive credit for a Subject Examination if a course comparable in content has been accepted in transfer by the university, or if a grade of D or F was previously earned in such a course. (For more information, see "Freshman Admission Requirements" above.) Official score reports must be sent directly to the Office of Admissions from the Educational Testing Service. No transfer credit towards the General Education requirements may be earned once the student has matriculated at the American University.

## Admission from Nondegree Status

Students wishing to transfer from nondegree status at the American University to undergraduate degree status must submit a formal application for admission to the Office of Admissions and Financial Aid. If a student is accepted into an undergraduate degree program, a maximum of 30 credit hours may be transferred from nondegree status to the degree program.

## Admission for Part-time Study

An undergraduate student enrolled in fewer than 12 credit hours is considered a part-time student.

Applicants considering part-time study in a degree program are cautioned that they may be unable to complete the necessary coursework for degrees by attending evening classes only. Before applying they should consult with the department chair in the discipline of their proposed major to ascertain whether the required courses will be available to them.

Part-time degree applicants are required to meet the same standards for admission as full-time applicants, and should follow the instructions under either "Freshman Admission Requirements" or "Transfer Admission Requirements," whichever is appropriate, with the following exceptions pertaining to standardized tests:

1. Freshman applicants who have taken the Scholastic Aptitude Test (SAT) within the past five years are required to communicate with the Educational Testing Service, Box 592, Princeton, New Jersey 08540; or Box 1025, Berkeley, California 94701, to request that official scores be sent directly to The American University, Office of Admissions and Financial Aid.
2. If the applicant completed secondary school within the past two years and did not take the SAT, the applicant must arrange to do so. Information on how to apply may be obtained from the Educational Testing Service.
3. If the applicant completed secondary school more than two years ago and did not take the SAT, the applicant may be asked to take an alternative examination at the direction of the Office of Admissions and Financial Aid.
4. The American College Test is accepted in lieu of the Scholastic Aptitude Test.

## Readmission

An undergraduate student whose studies at the university are interrupted for any reason for a period of one semester (excluding the summer sessions) must submit a formal application for readmission and a reapplication fee of \$45 to the Office of Admissions at least two months before the beginning of the semester or summer session for which the student wishes to be readmitted, unless written permission to study at another collegiate institution was secured in advance or the student has been granted



an official leave of absence. (See "University Degree Requirements" below.)

Students who were in good standing when they left the university and who have maintained a satisfactory grade point average at another school are virtually assured readmission. It is to a student's advantage to apply for readmission as early as possible so that he or she may register during the advance registration period.

A student who is readmitted is subject to the academic requirements and regulations in effect at the time of readmission.

## Degrees

### Associate Degree

The Associate in Arts degree requires the completion of at least 60 credit hours. At least 24 of the last 30 credit hours applied to the degree must be taken in residence at the American University. A maximum of 36 credit hours may be transferred to the degree.

Students must complete at least 24 hours of courses in the General Education Program including one foundation course in each of the five curricular areas and one second-level course in each of three of the five curricular areas. Students must also fulfill the College Writing and English Competency Requirement and the College Mathematics and Quantitative Competency Requirement.

(For more information, see "University Degree Requirements" below.)

### Bachelor's Degrees

The university offers the following bachelor's degrees: Bachelor of Arts (B.A.), Bachelor of Fine Arts (B.F.A.), Bachelor of Science (B.S.), Bachelor of Science in Business Administration (B.S.B.A.). All bachelor's degrees require completion of at least 120 credit hours of coursework. At least 45 credit hours out of the last 60 must be completed in residence at the American University. A minimum of 15 credit hours must be completed at the American University in upper-level courses in the student's major. A maximum of 75 hours may be transferred towards a bachelor's degree.

Within the total 120 credit hours, students must fulfill a 6-credit-hour College Writing and English Competency Requirement, a 3-credit-hour College Mathematics and Quantitative Competency Requirement, a 30-credit-hour General Education Requirement, and requirements for a major. (For more information, see "University Degree Requirements" below.)

### Two Undergraduate Degrees

Two undergraduate degrees may be conferred if a student satisfies both major and major-related requirements within two departments or schools and accrues at least 150 credit hours.

In order to be eligible for the second bachelor's degree, the student must apply for admission to the second degree

program, preferably by the end of the junior year. If the student is granted admission to the second program, then upon completion of all requirements for the first program and the award of the first degree, the student's status will be changed to the second program. The student must again apply for graduation to be granted the second degree.

### Bachelor's/Master's Degrees

Some departments offer programs which allow students to earn both a bachelor's and a master's degree in a planned program of study during the third and fourth undergraduate years and first graduate year.

Students are admitted to each level according to requirements established by the teaching unit.

Six graduate credit hours may be applied to the requirements for both degrees. For graduate programs requiring more than 36 credit hours, the number of hours applicable to both degrees may be increased.

## Fields of Study

### Major Requirements

Each undergraduate must complete at least 36 credit hours in the degree major and related courses, no fewer than 15 of which must be earned in upper-level courses taken in residence at the American University.

A grade of C (2.00) or better is required for each major, major-related, or minor course. Students should note that a C- does not qualify and any course with a C- or lower will have to be repeated or an equivalent course taken to satisfy the major requirement involved. Courses in the major may not be taken on a pass-fail basis without the special permission of the student's dean or department chair.

### Declaration of Major

By the end of the sophomore year, if not before, each student must choose and declare an academic major. Formal declaration of the major is required on a form available from the departmental, dean's, or registrar's office.

Admission to the university in an undergraduate program does not automatically constitute admission to a major program. Acceptance is official only when specific approval has been granted by the department or program chair or designee and recorded by the Office of the Registrar.

### Double Majors

A student can complete a double major by satisfactorily passing the major and major-related coursework required by two departments or schools.

If the double major is pursued in two schools, the student must designate when declaring the two majors which school he or she will be registered in and graduated from. The student will need to satisfy the general requirements of that school only. If a student is majoring in two recognized majors that lead to different degrees (e.g., B.A. and

## 16 Undergraduate Study

B.S.), the student specifies which of the two degrees is to be awarded.

A student may apply the same course to both major programs if it fits into both sets of requirements.

### Interdisciplinary Majors

In addition to the established major programs, students have the option of constructing their own major programs leading to B.A. or B.S. degrees. To design and complete an interdisciplinary major, a student must have the advice and approval of three faculty members: one major adviser (who must be a full-time faculty member) and two sponsors. The three faculty members should represent the various disciplines involved in the interdisciplinary field. The major faculty adviser will advise the student actively for the rest of the student's undergraduate career. The two sponsors will assist the major faculty adviser in areas outside the adviser's field.

Interdisciplinary major programs must include at least 42 credit hours, including 6 credit hours in independent study or senior seminars and 36 credit hours selected to form an academically sound, unified, and well-defined program. At least 75 percent of the 36 credit hours must be upper level as defined by the teaching units that offer them. Students are encouraged to include at least two 500-level courses, although in some areas this may not be possible. A maximum of 18 credit hours of work completed prior to the semester in which application is made may be included in the program.

The two independent study courses or senior seminars (6 credit hours) must be supervised by the major adviser and must be focused on the program's central concept.

For permission to undertake an interdisciplinary major, the student applies to the dean of the school or college in which he or she is enrolled. (For more information, see the Interdisciplinary Degree Programs chapter in this catalog.)

### Changes in Field of Study

A student who wishes to change from one college or school to another, or from one major to another, must receive the permission of the dean or department chair in charge of the program to which the student wishes to transfer. This is done on a form available from the dean's or department's office and filed in the Office of the Registrar. A change in college, school, or major affiliation, when approved, does not become effective until the beginning of the next semester. It does not become effective if the student is suspended or dismissed. A student who changes a field of study may lose credit already earned in other study that is not appropriate to the new program.

### Minors

Specific course requirements for individual minors are listed under individual degree programs. All minor programs consist of a minimum of 18 credit hours, including at least 9 credit hours at the 300 level or above. Not more than 6 credit hours may be used to satisfy simultaneously the requirements of both a major and a minor. For all

minors, at least 9 credit hours of the stated requirements must be taken in residence at the American University.

A grade of C (2.00) or better is required for each course used to satisfy the requirements of a minor.

Graduation clearance for minors follows procedures analogous to those for majors. Formal declaration of a minor is made at the time of the student's application for graduation clearance. Minors will be posted on the student's permanent record at the time of graduation but will not appear on the student's diploma.

### Interdisciplinary Minors

Students may also earn an interdisciplinary minor by completing an individually constructed program satisfying the requirements stated above and consisting of courses from different disciplines united by a common theme and modeled after interdisciplinary majors. Students should consult their deans' offices for additional information.

## University Degree Requirements

It is university policy that no student shall be involuntarily subject to regulations and academic requirements introduced during the student's continuous enrollment in good standing in a single degree program if the new regulations involve undue hardships or the loss of academic credits earned to satisfy the requirements previously in effect.

Undergraduate students are governed by the following minimum requirements for the undergraduate degree (each teaching unit may have further major and major-related requirements). Undergraduate students are advised to consult their own adviser, department chair, or dean for detailed information.

### Credit Hours

A total of 120 credit hours is required for the bachelor's degree. Individual bachelor's degree programs may require the completion of more than 120 credit hours. (For more information, see the individual degree program descriptions.) A total of 60 credit hours is required for the associate degree.

### Residence

To be eligible for a bachelor's degree from the American University, a student must complete, in residence at the American University, a minimum of 45 credit hours out of the last 60 credit hours that apply toward the degree and must complete a minimum of 15 credit hours of upper-level courses in the major field at the American University. More may be required by the department chair or dean, according to the department's normal requirements for a major. A maximum of 75 credit hours may be transferred toward a bachelor's degree. In addition, all minor programs require that 9 credit hours of the minor requirements be taken in residence.

To be eligible for an associate degree from the American University, a student must complete, in residence at the American University, a minimum of 24 credit hours out of the last 30 credit hours that apply toward the degree. A maximum of 36 credit hours may be transferred toward an associate degree.

Credit earned in any American University course, on or off campus, is residence credit. Credit earned by an American University student through the Consortium of Universities of the Washington Metropolitan Area is also residence credit.

## Grade Point Average

Students enrolled in an undergraduate degree program must maintain a grade point average of at least 2.00 in order to remain in good standing and to graduate.

## University Competency Requirements

### College Writing and English Competency

All students must be able to write with a level of mastery equal to the demands of college coursework. In addition, students need to acquire the critical reading skills applicable to all their college courses. During the freshman year students develop competence by taking one of the following required 6-credit course sequences:

- 23.100 College Writing and  
23.101 College Writing Seminar
- 23.102 College Writing and  
23.103 College Writing Seminar  
(for students who need extra work  
on language skills)
- 23.130 Honors English I and  
23.131 Honors English II
- 23.205 Issues, Ideas and Words and  
23.101 College Writing Seminar  
or  
23.103 College Writing Seminar  
(for students in the APEL Program)
- 74.200 College Reading and Writing I and  
74.201 College Reading and Writing II  
(for nonnative speakers of English)

Students who complete the College Writing Requirement in one of these ways need not take the English Competency Examination. (Note: courses must be passed with a C or better.)

Students may be exempted from this coursework and from the competency exam by earning an Advanced Placement English Test score of 4 or 5. A student who earns a CLEP College Composition exam score of 75% will satisfy one semester of the College Writing Requirement but must take either 23.100, or 23.101 and the English Competency Examination to satisfy the entire requirement.

Students who transfer 6 hours of acceptable composition credit from another institution will satisfy the College Writing Requirement by passing the English Competency

Examination. Students who transfer 3 hours of acceptable composition credit from another institution may satisfy the requirement by passing the first course in the College Writing Requirement with a C or better or by taking the second course of the sequence and passing the English Competency Examination.

If a student fails the competency exam twice, the student must enroll in 23.180 Writing Workshop (or 74.280 College Writing Skills Workshop for nonnative speakers of English) and must pass the course with a grade of C or better.

Nonnative and native speakers of English must meet the same requirements. All students whose first language is not English are required to have their proficiency evaluated by the English Language Institute (ELI) before their first registration, whether or not they transfer English credit from another institution. Nonnative speakers of English may fulfill the requirement by taking 74.200 and 74.201. ELI has the primary responsibility for advising nonnative speakers of English, evaluating their examinations, and providing whatever support services are needed. Students who need assistance should contact the Competency Coordinator, English Language Institute, McKinley 206, (202) 885-2147.

### College Mathematics and Quantitative Competency

All students must demonstrate skills in mathematics and quantitative reasoning at the college level. Students must meet the College Mathematics Requirement during the freshman year and before enrolling in the foundation course in The Natural Sciences curricular area of the General Education Program. The mathematics requirement may be satisfied through course work or examination.

Students meeting the requirement through course work must receive a C or better in one of the following courses:

- 41.150 Finite Mathematics
- Any American University 41.xxx course at the level of 41.150 Finite Mathematics or above. This includes, for example, 41.221 Applied Calculus I and 41.221 Calculus I.
- any 42.xxx statistics course

Students may also satisfy the College Mathematics Requirement through examination by passing an examination equivalent to Finite Mathematics, Applied Calculus I, or Basic Statistics given by the Department of Mathematics and Statistics. Only one of these exams may be taken, and that exam may be taken only once, during the student's first semester. The requirement may also be satisfied with the following scores:

- AP Calculus AB score of 3, 4, or 5
- AP Calculus BC score of 3, 4, or 5
- Mathematics II Achievement test score of 650
- CLEP Calculus exam score of 75%

Transfer students must satisfy this requirement by passing one of the equivalency exams listed above (which may be taken only once and before entering the first semester), presenting one of the test scores listed above,

## 18 Undergraduate Study

taking 41.150 Finite Mathematics, 41.170 Precalculus Mathematics, 41.211 Applied Calculus, 41.221 Calculus I, or any American University 41.xxx course that has any of these courses as the prerequisite, or any 42.xxx statistics course.

Because the Mathematics and Statistics Equivalency Examinations test proficiency in college level mathematics or statistics, only those students with very good mathematics backgrounds, e.g. Math SAT scores over 600 and/or at least four years of good performance in high school mathematics, should expect to satisfy the College Mathematics Requirement with one of these examinations. Consult the Department of Mathematics and Statistics, (202) 885-3120 for additional information concerning the Mathematics and Statistics Equivalency Examinations.

## General Education

The American University's General Education Program, required of all undergraduates, is designed to provide a challenging and focused liberal arts foundation. The General Education Program, including university requirements in writing and mathematics, constitutes approximately one third of a student's coursework at the university. During the first year, students satisfy university requirements by earning a grade of C or better in 6 hours of College Writing course work and 3 hours of College Mathematics coursework or through examination. In addition, students take 30 hours of General Education Requirements drawn from five curricular areas: The Creative Arts, Traditions that Shape the Western World, International and Intercultural Experience, Social Institutions and Behavior, and The Natural Sciences. These requirements are designed to be completed during the first two years of study.

The American University is committed to giving students a strong intellectual foundation, ensuring that they understand the interrelatedness of a wide range of intellectually and culturally important disciplines, and that they experience the challenge and excitement of study in depth. Consequently, each student takes two sequenced courses in each of the five curricular areas: a foundation course followed by a second-level course that reinforces the objectives and concepts of the first course.

The program is based on the idea that students should develop an appreciation of the forms of creative human expression; awareness of the cultural, philosophical, and historical frameworks of the world's cultures; an understanding of the structures, patterns, principles, and values that affect the organization of societies and the relationship between the individual and society; a basic understanding of the natural sciences; and the ability to apply diverse modes of inquiry and critical reasoning to gather data and solve problems in all areas of knowledge. In short, the General Education Program aims to develop informed, effective minds suited for a complex and changing world.

# Academic Standards and Regulations

## Academic Load

An undergraduate student admitted to and enrolled in a degree program usually registers for 15 credit hours each semester so that the required minimum of 120 credit hours for the bachelor's degree is completed in four years.

In any given semester, a student may carry a minimum of 12 credit hours and be classified and certified (for veteran's benefits, financial aid, etc.) as full-time for that semester. The additional credit hours must be made up through summer enrollment or by an overload (if approved by the dean) in another semester in order to maintain normal annual progress toward the degree, as is often required by the regulations of government agencies. Students are urged to become familiar with such regulations. A total of 19 credit hours is the maximum load permitted without special approval.

An undergraduate student wishing to register for more than 19 credit hours in a semester is required to have the approval of the academic adviser and the appropriate dean. The approval is for the overload, not permission for a specific course. A per-credit-hour tuition fee is assessed, in addition to the full-time tuition fee, for registered credit hours over seventeen.

## Class Standing

Undergraduate class standing is defined as follows:

<b>Credit Hours Completed</b>	<b>Standing</b>
0-29	Freshman
30-59	Sophomore
60-89	Junior
90-120	Senior

Students enrolled in a degree program requiring the completion of more than 120 credit hours will be considered seniors from the time they have completed 90 credit hours until they have completed all of their degree requirements.

## Evaluation of Progress

An evaluation of each undergraduate student's progress is made by the office of the student's dean after each semester. In addition to the cumulative grade point average, this evaluation considers completion of all university requirements and the ratio of courses satisfactorily completed to all courses attempted by the student. Students who are not making satisfactory progress are informed in writing of the result of their evaluation and offered academic advisement.

The university has no strict regulations governing the total amount of time an undergraduate student may take to fulfill the requirements for a degree, provided the student maintains the appropriate grade point average and

gives evidence of being seriously interested in the eventual achievement of his or her academic objective.

## Academic Probation and Dismissal

An undergraduate student who fails to maintain the required 2.00 cumulative grade point average but whose average is 1.75 or higher may be granted probationary status for one year. Academic probation is an action usually taken only in the first two years of full-time study or the equivalent in part-time study. Dismissal may be anticipated by any student whose cumulative grade point average in the third or fourth year of full-time study (or the equivalent in part-time study) falls below 2.00, or whose average in any semester falls to 1.00 or below. Actions involving academic probation and dismissal are entered on the student's permanent record and may not be removed.

A student on probation may be subject to restrictions as to the course load for which he or she may register. Such a student is ineligible to hold office in student organizations or to participate in intercollegiate activities. The student may be given permission to participate in intercollegiate athletics at the end of a semester in which the student's cumulative grade point average has been raised to 2.00, even though the student's probation may extend for an additional semester.

It should be noted that the grade point average is only one measure of academic performance. Maintenance of the required average does not necessarily imply that a student is making satisfactory progress, and the university reserves the right to dismiss a student whose performance is judged unsatisfactory even though the student has maintained the required grade point average.

A student who is dismissed may not be readmitted to the university or enroll as a nondegree student for a full year after the effective date of the dismissal.

## Freshman Forgiveness

A freshman who, during the first two semesters of full-time study, receives a grade of F or X in a course may repeat the course at the American University within the calendar year thereafter, or in the next two regular semesters in which the student is enrolled. If the course is not offered within that time, the student may use the option the next time it is offered. No grade is removed from the student's record, but only the grade earned the second time the course is taken is used in calculating the grade point average for purposes of making decisions concerning probation, dismissal, and required average for graduation.

A part-time undergraduate or nondegree student who, during the first 30 credit hours of study, receives a grade of F in a course may repeat the course at the American University within one calendar year after the semester in which the grade of F was received, with the resulting cumulative index benefits stated above.

The freshman forgiveness rule does not apply to transfer students even though they may have entered the university with freshman status.

## Pass-Fail

Students may take up to 50 percent of their courses on a pass-fail basis. If a student's major department approves, this percentage may be greater. Courses in the student's major must be taken for a letter grade unless special permission is given by the dean or department chair. The grade of P (pass) is not used in calculating the grade point average. (For more information, see the General Academic Information and Regulations chapter in this catalog.)

## Graduate Credit

Senior students, with the written permission of their department chairs or deans, may enroll in specifically approved graduate courses not required for their undergraduate programs. Such courses must be designated in writing as graduate-degree credit at the time the student registers for them. A copy of this written agreement must be filed in the Office of the Registrar. Retroactive application of these credits for such purposes is not permitted. Credit for these courses may be applied toward meeting the course requirements for a graduate degree after the student has been awarded an undergraduate degree if the student is then admitted to a graduate degree program.

No course may be counted as credit toward both an undergraduate and a graduate degree, except as part of a formally prescribed combined undergraduate-graduate degree program.

## Study at Another Institution

Study at another institution is usually undertaken during the summer or as part of an overseas program.

An enrolled student who plans to take courses at another college or university for transfer credit to the American University must be in good academic standing and must receive prior approval from the student's teaching-unit chair and college dean using the Permit to Study Abroad form or the Permit to Study at Another U.S. Institution form. For study abroad, approval is also required from the director of the World Capitals Program. If the course to be taken is outside the area of the student's major, the chair of the teaching unit which would offer credit for such a course must also approve the permit. Approval is granted for specific courses. (See also "Study Abroad" below.)

The visited institution, if in the United States, must be regionally accredited. Students who have earned 60 or more credits toward their degrees (junior standing) at the time they undertake work at another U.S. institution may have credit transferred only from institutions accredited for granting bachelor's or higher degrees. With departmental approval, transfer credit is applicable toward the requirements of a major. Transferred courses must be completed with a grade of C or better for undergraduate degree credit.

Transfer credit may be used to fulfill General Education Requirements through the evaluation of equivalent courses taken at another institution and with the approval of the student's dean. Because of the special nature of the program, after the student has been admitted to the Amer-

## 20 Undergraduate Study

ican University no credit toward General Education Requirements may be earned through transfer credit.

### Study Abroad

The American University runs numerous study abroad programs. (For more information, see "Special University Programs.") Undergraduate students enroll in these programs by applying through the World Capitals Program.

Students may participate in study abroad programs offered by other institutions that are part of a regionally accredited U.S. college or university, and are recorded on the transcripts of those institutions. For determination of regional accreditation, the publication *Credit Given* is the accepted reference.

After consultation with and approval of the student's dean and the director of the World Capitals Program, application is made directly to the institution for admission to its foreign study program. Transfer credit will be granted on the basis of the transcript from the sponsoring U.S. college or university.

Students may also attend institutions abroad not affiliated with an American college or university. Requests for transfer credit must be made on a Permit to Study Abroad form and must be approved before the student registers at the foreign institution. The institution to be visited must be approved by the student's dean and the director of the World Capitals Program. The student's dean or academic adviser will evaluate the official transcript when the student returns for the value in credit hours of the work completed, and will forward the transcript and evaluation to the Office of the Registrar for transfer of approved credit.

The student's academic adviser and dean will approve the academic areas or specific courses of study. Students must be warned by their academic adviser that they might not receive credit for remedial language study if they are found deficient in the language of the country they visit. (See also "Study at Another Institution" above.)

### Leave of Absence

Undergraduate students desiring a leave of absence for reasons other than study at another collegiate institution should request an appointment with their dean. If it seems desirable to guarantee the student an automatic readmission, the dean will issue a permit for leave of absence. This permit will specify a limitation, one year at most, of automatic readmission to the same undergraduate program.

The permit becomes void if the student attends any domestic or foreign collegiate institution during the period of leave. In such instances, the student must obtain from his or her dean a permit to study at another institution before leaving the American University.

### Resuming Study

Students who cease to attend the university for an entire semester, whether voluntarily or not, may not resume study until they have been readmitted. Readmitted students are subject to all regulations and must meet all requirements in force when studies are resumed unless

other arrangements have been agreed to in writing by the student's dean before the beginning of such an absence.

Students who change degree objective, college, or school, or who choose to conform to new regulations or requirements, must be prepared to complete all requirements and abide by all regulations in effect at the time such a change is made.

## University Honors and Awards

### Dean's List

Each college or school may issue a dean's list of its undergraduate honors students at the end of each semester. The minimum standard for listing is a 3.50 grade-point average for the semester, earned in a full-time undergraduate program of not fewer than 15 completed credit hours of which at least 12 hours must be completed for A-F grade credit.

### University Honors Program

The University Honors Program offers a four-year program of honors options to qualified students. Honors work is offered at all levels and in all departments. The program is characterized by small seminars, individualized attention from faculty, unique access to the resources of Washington, D.C., and the special atmosphere of an honors community of committed faculty and students. In addition to these curricular opportunities, honors students may live on an honors floor in a residence hall and participate in such activities as field trips, concerts and theatre productions, and meetings and symposiums with members of the Washington community, university leaders, and the honors faculty.

### Curriculum

The comprehensive four-year program of honors options is drawn from the General Education curriculum as well as work in individual departments. Early honors work gives students a broad base of knowledge, skills, and understanding which serves as a foundation for increasingly specialized upper-level honors work in the major and related areas. Students graduate with either University Honors or University Honors in the Major. An honors coordinator in each teaching unit advises students on a specific honors program.

### Requirements

The University Honors Program has three components: the foundation level with introductory and General Education honors options; advanced honors course work in the major and related areas; and a senior honors project. Students must complete 30 hours of honors work as follows: foundation level, 12 to 18 hours; advanced level, 6 to 12 hours; and senior project, 3 to 6 hours. Honors students elect the 12 to 18 hours of foundation-level work from honors English, honors Mathematics, and honors sections of General Education or departmental introduc-

tory courses. At the advanced level (.300 or above) specialized honors work is drawn from honors seminars and honors sections of courses in the major or related fields, honors supplements linked to courses in the major or related fields, University Honors Program seminars, and honors independent study. All students must complete a minimum of 6 hours of advanced-level honors work in the major or related areas. All students complete an honors senior capstone project (3 to 6 hours). The senior project, which varies among teaching units, may include, for example, an honors thesis, a performance or exhibit, a major paper linked to an interdisciplinary colloquium, a publication, or a departmental capstone course. Honors program students must maintain a cumulative grade point average of 3.00 or above.

### Honors Graduation Requirements

Students who successfully complete the program (a minimum of 30 hours of designated honors coursework as described above, with a grade of B or better in each honors course and a cumulative grade point average of 3.30 or above) are eligible to graduate with University Honors. Students who complete the requirements for University Honors with 12 hours of advanced-level honors work, including a senior project, in the major will, upon departmental recommendation, be eligible to graduate with University Honors in the Major.

### Admission to the Program

Admission to the University Honors Program is determined by the honors director. Qualified entering freshmen, transfer students, and current students are eligible for admission to the program. Approximately 10 percent of the entering freshman class, selected on the basis of high school record and SAT scores, is admitted to the program. Other students, including transfer students, may be admitted to the program at the discretion of the honors director if they have achieved a cumulative college grade point average of 3.50 on a 4.00 scale for the equivalent of at least one full semester of work (15 credit hours). Students enrolled at the American University may also nominate themselves for admission to the program and are admitted to the program at the discretion of the honors director.

Students who enter the University Honors Program after beginning the freshman year are not required to complete the full 30 hours of honors course work. Exceptions to the number of required hours are subtracted from the foundation-level requirements. Inquiries about admission to the University Honors Program should be addressed to the director of the program.

## Graduation Honors

There are two kinds of undergraduate graduation honors at the American University: Latin Honors, based on cumulative grade point average, and University Honors, based on a combination of honors course options and cumulative grade point average.

To be eligible for graduation honors, students must have completed at least 60 credit hours required for their degree in residence at the American University and have achieved the requisite grade point average.

Undergraduate Latin Honors and the grade point averages required are as follows: *summa cum laude*: 3.90 or higher; *magna cum laude*: 3.70 through 3.89; *cum laude*: 3.50 through 3.69. No more than 15 credit hours taken pass-fail may be included in the American University work applied toward Latin Honors. Such courses are not computed into the grade point average. Honors are listed in the commencement program and on the student's diploma and permanent record.

Students who fulfill the requirements for the University Honors Program are eligible to graduate with University Honors. University Honors Program students whose honors work includes completion of 12 hours of advanced-level honors work in the department, including the senior project, are eligible, upon departmental recommendation, to graduate with University Honors in the Major. Graduation with University Honors is listed in the commencement program and on the student's diploma and permanent record. (For more information, see "University Honors Program" above.)

## Student Awards and Fellowships

The Office of Student Awards & Fellowships assists students in applying for prestigious award opportunities during and after their undergraduate work at the American University. Fellowships and scholarships are awarded in virtually all academic disciplines for study and research experiences both in the United States and worldwide. They range from fellowships for long-term Ph.D. or graduate study to one-year study abroad opportunities, to even one-time monetary awards.

There are dozens of fellowships and scholarships for which American University students are eligible to apply. These include the highly prestigious Rhodes Scholarship, for two years of study at Oxford University, and the Marshall Scholarship, for two years of study at a British university. Fulbright and Rotary International Fellowships provide for a year of research and graduate study in a foreign country. Fawcett Fellows serve at a U.S. embassy or consular office in Eastern Europe or the former Soviet Union for one year. The Truman Scholarship funds outstanding students with an interest in public service for their senior year and two years of graduate school. The Jacob K. Javits Fellows Program and National Science Foundation Fellowships fund outstanding students interested in pursuing their doctoral degrees in the U.S. and Canada.

A number of students from the American University have won these highly selective awards. Successful candidates for these opportunities possess a combination of intellect, commitment to service, leadership ability, and imagination demonstrated by their record of scholastic achievement, campus activities, and community involvement.

The Office of Student Awards & Fellowships works with students individually to assist them in identifying awards of interest and to direct them to the appropriate campus representative for each award. The office assists students as they go through the application process. For more information about special awards and fellowships, consult the coordinator of the office, located in the Career Center.





# General Education Program

The General Education Program is designed for all undergraduate students regardless of degree program. Aimed at building a strong intellectual foundation, the 30 hours of General Education Requirements are drawn from five curricular areas. The program is designed to be completed during the first two years, allowing students ample time to pursue a major as well as study abroad, internships, and cooperative education.

## Curricular Area Course Requirements

Students select courses from those that are designated in the catalog as General Education courses. Students choose two courses, one foundation course and one second-level course in the same cluster (6 credit hours), in each curricular area:

The Creative Arts  
Traditions that Shape the Western World  
International and Intercultural Experience  
Social Institutions and Behavior  
The Natural Sciences

Courses at the foundation level introduce students to the fundamental concepts, issues, and achievements in the disciplines. Courses deal explicitly with the appropriate processes and standards for gathering and evaluating information (quantification, experiments, primary sources, authoritative texts) and interpretation (methods of investigation and analytic skills) in a specific disciplinary field. All science foundation courses include laboratory experience. The courses are designed to help students achieve a broad view of how different disciplinary viewpoints and fields of knowledge can contribute to their understanding of themselves and the world around them.

General Education foundation courses differ from traditional survey courses by integrating into the course some of the perspectives and foundation skills essential to a full education. These elements include the following, as appropriate:

- writing experience to enhance basic communication skills and to reinforce what is taught in the College Writing program
- a critical thinking component to enhance the ability to make and analyze judgments based on reasoning and evidence and to evaluate the reliability of sources of information
- recognition of the ethical issues pertinent to the field or discipline
- development of quantitative and computing skills
- development of intuitive, creative, and aesthetic faculties, and the ability to connect these with reasoning skills
- attention to a variety of perspectives, including those perspectives that emerge from the new scholarship on gender, race, and class as well as from non-Western cultural traditions

The second-level courses follow specific foundation courses, forming a coherent curricular sequence and reinforcing the learning objectives of the foundation course. The foundation courses selected from a variety of disciplines assure breadth in the student's program while the second-level courses build on the foundation and encourage study in depth.

## Curricular Area 1: The Creative Arts

This dimension of the curriculum is designed to develop an informed understanding of literary and artistic creativity and of the distinct aesthetic languages of the visual arts, literature, music, theatre, and dance. Students gain this understanding through the study of historical and contemporary examples of the arts and letters, or through the disciplined practice of a creative art form.

## 24 General Education Program

### Course Goals

- study classic works of the human imagination
- critically analyze creative works from the viewpoints of form, style, and meaning
- understand how and by whom aesthetic value judgments have been made historically
- examine the nature of imaginative and intuitive thinking
- consider the relationship between problem solving and creativity
- develop aesthetic sensibility, discernment, and informed judgments
- explore the interaction of art and society
- develop creative and expressive abilities in order to understand the qualities that shape an artist's work

**Foundation Courses**—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

### 05.100 Art: The Studio Experience

- 05.205 Drawing: Responding to Vision
- 05.210 Painting: Color, Form, Expression
- 05.215 Sculpture: Form and Expression in 3-D
- 05.220 Design: Color Theory and Practice
- 05.225 Design: Form, Space, Vision
- 07.210 Modern Art: 19th and 20th Centuries
- 55.200 Creativity and Computers
- 60.230 Meaning and Purpose in the Arts

### 07.105 Art: The Historical Experience

- 05.210 Painting: Color, Form, Expression
- 05.215 Sculpture: Form and Expression in 3-D
- 07.210 Modern Art: 19th and 20th Centuries
- 07.215 Architecture: Washington and the World
- 23.270 Transformations of Shakespeare
- 67.210 The Great Composers: Lives and Music

### 17.105 Visual Literacy

- 05.205 Drawing: Responding to Vision
- 05.220 Design: Color Theory and Practice
- 07.210 Modern Art: 19th and 20th Centuries
- 07.215 Architecture: Washington and the World
- 67.220 Reflections of American Society on Stage and Screen
- 67.225 The African American Experience in the Performing Arts

### 23.105 The Literary Imagination

- 23.225 The African Writer
- 23.240 Narrative and Knowledge
- 23.245 The Experience of Poetry
- 55.200 Creativity and Computers
- 60.230 Meaning and Purpose in the Arts

### 23.120 Interpreting Literature

- 03.225 Language and Human Experience
- 23.215 Writers in Print/In Person
- 23.225 The African Writer

- 23.245 The Experience of Poetry
- 23.270 Transformations of Shakespeare

### 23.135 Critical Approach to the Cinema

- 23.240 Narrative and Knowledge
- 67.215 Opera on Stage and Film
- 67.220 Reflections of American Society on Stage and Screen
- 67.225 The African American Experience in the Performing Arts

### 67.110 Understanding Music

- 07.210 Modern Art: 19th and 20th Centuries
- 55.200 Creativity and Computers
- 60.230 Meaning and Purpose in the Arts
- 67.205 Masterpieces of Music
- 67.210 The Great Composers: Lives and Music
- 67.215 Opera on Stage and Film
- 67.225 The African American Experience in the Performing Arts

### 67.115 Theatre: Principles, Plays and Performance

- 03.225 Language and Human Experience
- 05.225 Design: Form, Space, Vision
- 23.215 Writers in Print/In Person
- 23.270 Transformations of Shakespeare
- 67.200 Dance and Society

### 67.160 On Stage! Dance-Music-Theater

- 67.200 Dance and Society
- 67.210 The Great Composers: Lives and Music
- 67.215 Opera on Stage and Film
- 67.220 Reflections of American Society on Stage and Screen

## Curricular Area 2: Traditions that Shape the Western World

This curricular area aims to enrich students' knowledge and appreciation of Western civilization. Courses explore the people, forces, events, and institutions that have shaped history, and the various philosophical, religious, and ethical questions that provide the foundation for moral choice. Students become aware of the accomplishments and limitations of particular cultures, of how our lives today reflect the past from which we evolved, and of how ideas about the past shape perceptions of the present and plans for the future.

### Course Goals

- understand the historical and philosophical traditions that shape the Western world
- recognize that Western intellectual traditions are defined by diversity as much as by commonality, by both resistance to and enrichment by influences from the rest of the world, and that challenge to authority has been a distinctive characteristic of these traditions
- read and discuss fundamental texts from these traditions
- examine and assess evidence, draw conclusions, and evaluate the meaning of these conclusions

- examine historical and philosophical issues critically and comparatively
- consider the contributions of ethical and religious systems to human life
- discuss the complex interplay between the rich varieties of tradition and the necessity of change

**Foundation Courses**—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

**07.100 European Art: From Cave to Cathedral**

- 07.205 Art of the Renaissance
- 29.200 Italian Civilization (Study Abroad)
- 34.205 Ancient and Medieval Jewish Civilization
- 51.230 Changing Views of the Universe
- 61.220 Religious Thought

**23.115 Remarkable Literary Journeys**

- 02.210 Folk Traditions, Community and Identity
- 23.235 African American Literature
- 23.255 Political Revolutions and Literary Continuity, 1660-1798
- 23.265 Literature and Society in Victorian England
- 29.200 Italian Civilization (Study Abroad)
- 34.205 Ancient and Medieval Jewish Civilization
- 73.220 Cities and Crime

**29.100 Historians and the Living Past**

- 17.270 How the News Media Shape History
- 29.235 The West in Crisis, 1900-1945
- 51.230 Changing Views of the Universe
- 57.230 Theories of Personality

**29.110 Renaissance and Revolutions: Europe, 1400-1615**

- 23.255 Political Revolutions and Literary Continuity, 1660-1778
- 23.265 Literature and Society in Victorian England
- 29.205 America's Quests: The U.S. to 1865
- 29.235 The West in Crisis, 1900-1945
- 60.210 European Philosophy and the American Experiment

**29.115 Work and Community**

- 02.210 Folk Traditions, Community, and Identity
- 23.235 African American Literature
- 29.215 Social Forces that Shaped America
- 34.210 Voices of Modern Jewish Literature
- 73.220 Cities and Crime

**53.105 Individual Freedom vs. Authority**

- 17.270 How the News Media Shape History
- 29.205 America's Quests: The U.S. to 1865
- 57.230 Theories of Personality
- 60.210 European Philosophy and the American Experiment
- 73.225 American Legal Culture

**60.105 Western Philosophy**

- 02.230 Tribal Traditions
- 23.255 Political Revolutions and Literary Continuity, 1660-1798

- 29.200 Italian Civilization (Study Abroad)
- 51.230 Changing Views of the Universe
- 60.210 European Philosophy and the American Experiment
- 60.220 Moral Philosophy
- 65.215 The Rise of Critical Social Thought
- 73.225 American Legal Culture

**61.105 The Religious Heritage of the West**

- 02.210 Folk Traditions, Community, and Identity
- 02.230 Tribal Traditions
- 07.205 Art of the Renaissance
- 29.200 Italian Civilization (Study Abroad)
- 34.210 Voices of Modern Jewish Literature
- 61.220 Religious Thought

**73.110 Western Legal Tradition**

- 34.205 Ancient and Medieval Jewish Civilization
- 60.220 Moral Philosophy
- 65.215 The Rise of Critical Social Thought
- 73.220 Cities and Crime
- 73.225 American Legal Culture

**76.150 Women's Voices through Time**

- 29.215 Social Forces that Shaped America
- 34.210 Voices of Modern Jewish Literature
- 60.220 Moral Philosophy
- 65.215 The Rise of Critical Social Thought

## Curricular Area 3: International and Intercultural Experience

This dimension of the curriculum is designed to create an informed understanding of our interdependent world and to foster greater intercultural awareness and communication. Courses in this area seek to develop an understanding of non-Western cultures and traditions. They also address both timeless and newly emergent issues of international relations and introduce students to cultural diversity and its effects on the interaction of peoples and states.

### Course Goals

- understand those habits of thought and feeling that distinguish cultures from one another
- explore comparative and cross-cultural perspectives
- develop analytical skills appropriate to the study of international and intercultural relations
- understand concepts, patterns, and trends that characterize international and intercultural relations
- analyze systematically major issues such as war and peace, global order, distributive justice, and the finite character of the earth's resources

**Foundation Courses**—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

## 26 General Education Program

### 03.110 Culture: The Human Mirror

- 03.215 Sex, Gender, and Culture
- 03.230 India: Its Living Traditions
- 21.205 Education for International Development
- 33.210 Human Geography: Peoples, Places, and Cultures
- 33.245 The World of Islam
- 37.280 The Hispanic World
- 61.210 Asian and African Religious Traditions

### 19.110 The Global Majority

- 21.205 Education for International Development
- 33.210 Human Geography: Peoples, Places, and Cultures
- 33.250 Civilizations of Africa
- 65.230 Conflict and Change in Latin America
- 65.235 Women in the Third World

### 23.150 Third World Literature

- 03.215 Sex, Gender, and Culture
- 29.250 Civilization and Modernization: Asia
- 33.250 Civilizations of Africa
- 37.210 Latin America: History, Art, Literature
- 65.235 Women in the Third World

### 29.120 Imperialism and Revolution

- 03.210 Roots of Racism and Interracial Harmony
- 29.225 Russia: Past and Present
- 29.260 To Arms: People and Nations at War
- 53.235 Dynamics of Political Change

### 33.105 World Politics

- 12.200 The Global Marketplace
- 17.280 Contemporary Media in a Global Society
- 29.225 Russia: Past and Present
- 29.260 To Arms: People and Nations at War
- 37.200 Russia and the United States
- 33.372 Brussels Seminar (Study Abroad)
- 33.375 Vienna Seminar (Study Abroad)
- 53.434 British Politics and the European Community (Study Abroad)
- 65.225 Contemporary Arab World

### 33.110 Beyond Sovereignty

- 03.220 Living in Multicultural Societies
- 12.200 The Global Marketplace
- 21.205 Education for International Development
- 33.215 Competition in an Interdependent World
- 33.372 Brussels Seminar (Study Abroad)
- 33.373 Madrid Seminar (Study Abroad)
- 33.375 Vienna Seminar (Study Abroad)
- 53.235 Dynamics of Political Change

### 33.140 Cross-Cultural Communication

- 03.210 Roots of Racism and Interracial Harmony
- 03.220 Living in Multicultural Societies
- 12.200 The Global Marketplace
- 33.255 Japan and the United States
- 33.372 Brussels Seminar (Study Abroad)
- 33.374 Buenos Aires Seminar (Study Abroad)
- 37.210 Latin America: History, Art, Literature
- 37.280 The Hispanic World

### 53.130 Comparative Politics

- 17.280 Contemporary Media in a Global Society
- 33.215 Competition in an Interdependent World

- 33.255 Japan and the United States
- 33.372 Brussels Seminar (Study Abroad)
- 33.373 Madrid Seminar (Study Abroad)
- 33.374 Buenos Aires Seminar (Study Abroad)
- 33.375 Vienna Seminar (Study Abroad)
- 37.200 Russia and the United States
- 53.235 Dynamics of Political Change
- 53.434 British Politics and the European Community (Study Abroad)

### 61.185 Forms of the Sacred: Religions of the East

- 03.230 India: Its Living Traditions
- 29.250 Civilization and Modernization: Asia
- 33.245 The World of Islam
- 33.255 Japan and the United States
- 61.210 Asian and African Religious Traditions
- 65.225 Contemporary Arab World

### 65.110 Views from the Third World

- 03.230 India: Its Living Traditions
- 33.250 Civilizations of Africa
- 33.371 Santiago Seminar (Study Abroad)
- 33.374 Buenos Aires Seminar (Study Abroad)
- 65.225 Contemporary Arab World
- 65.230 Conflict and Change in Latin America
- 65.235 Women in the Third World

## Curricular Area 4: Social Institutions and Behavior

This dimension of the curriculum is designed to broaden understanding of the structures and principles that underlie and sustain political, social, and economic institutions. In addition, students examine the role of the individual in society through sustained analysis of major modes of organization and important theories and models.

### Course Goals

- understand and critically analyze concepts, patterns, and issues that affect the organization of societies and the relationship between the individual and the society
- study institutions, systems, and patterns of governance and of economic and social organization that underlie contemporary societies
- critically analyze classic theories of human organization
- discuss the values and ethical issues that underlie social, political, and economic organizations
- examine the formulation of policies and the consequences of different policy options
- analyze distinctive methods of inquiry appropriate to the study of societal institutions and patterns, using quantitative as well as qualitative techniques

**Foundation Courses**—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

**03.150 Anthropology of American Life**

- 02.240 Poverty and Culture
- 03.200 City as Community
- 29.210 Ethnicity in America
- 65.205 The Family
- 76.250 The Social Reality of Women

**19.100 Macroeconomics**

- 02.240 Poverty and Culture
- 19.200 Microeconomics
- 53.210 Political Power and American Public Policy
- 65.220 Work and Leisure in America

**53.110 Politics in the United States**

- 17.205 Understanding Mass Media
- 29.220 Women in Modern America
- 53.210 Political Power and American Public Policy
- 53.215 Civil Rights and Liberties
- 60.225 Ethical Issues in Government, Business, and Media
- 65.210 Inequality and Stratification

**54.105 Individuals and Organizations**

- 21.200 Schools and Society
- 53.205 Dissent, Conscience and Authority
- 53.215 Civil Rights and Liberties
- 57.205 Social Psychology
- 60.225 Ethical Issues in Government, Business, and Media
- 65.220 Work and Leisure in America
- 73.200 Deprivation of Liberty

**57.105 Psychology: Understanding Human Behavior**

- 17.205 Understanding Mass Media
- 53.205 Dissent, Conscience and Authority
- 57.205 Social Psychology
- 57.215 Abnormal Psychology and Society
- 65.205 The Family
- 73.215 Violence and Institutions
- 76.250 The Social Reality of Women

**65.100 American Society**

- 03.200 City as Community
- 17.205 Understanding Mass Media
- 21.200 Schools and Society
- 29.210 Ethnicity in America
- 65.210 Inequality and Stratification
- 65.220 Work and Leisure in America

**73.100 Justice in America**

- 29.220 Women in Modern America
- 53.215 Civil Rights and Liberties
- 57.215 Abnormal Psychology and Society
- 73.200 Deprivation of Liberty
- 73.215 Violence and Institutions

## Curricular Area 5: The Natural Sciences

This curricular area provides students with a basic understanding of the natural sciences and an informed understanding of the nature of scientific reasoning, discovery, and invention through a systematic exploration of the basic concepts and practices of biology, chemistry, physics, and experimental psychology.

**Course Goals**

- understand the makeup and workings of the natural world and the beings living in it
- understand how science works through explicit examination of the historical development and current status of scientific methods, concepts, and principles
- understand how the sciences use successive experimentation to replicate, control variables, explain error, and build explanatory models
- experience scientific experimentation through laboratory exercises
- practice problem-solving using quantification, statistical analysis, and computer data manipulation
- analyze and evaluate the contributions of important scientists
- develop a respect for the finite resources of our planet, responsible use of technology and nuclear power, the limits of humane research, and the fragile wonders of the natural world

**Foundation Courses**—Students select one 100-level course in the curricular area including a laboratory experience.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

**09.100 Great Experiments in Biology**

- 09.200 Structure and Function of the Human Body
- 09.220 The Case for Evolution
- 09.240 Oceanography
- 09.250 Living in the Environment
- 15.200 Human Biochemistry and Health
- 15.220 Environmental Chemistry
- 57.240 Drugs and Behavior

**09.110 General Biology I**

- 09.210 General Biology II
- 09.200 Structure and Function of the Human Body
- 09.220 The Case for Evolution
- 09.240 Oceanography
- 15.200 Human Biochemistry and Health
- 57.220 The Senses

**15.100 Chemistry for the Modern World**

- 09.240 Oceanography
- 09.250 Living in the Environment
- 15.200 Human Biochemistry and Health
- 15.220 Environmental Chemistry
- 15.230 Earth Sciences
- 51.200 How the Universe Works

## 28 General Education Program

- 51.220 Astronomy
- 57.240 Drugs and Behavior

### 15.110 General Chemistry I

- 15.210 General Chemistry II
- 09.240 Oceanography
- 15.200 Human Biochemistry and Health
- 15.220 Environmental Chemistry
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy

### 51.100 Physics for the Modern World

- 09.240 Oceanography
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy
- 57.220 The Senses

### 51.105 College Physics I

- 51.205 College Physics II
- 09.240 Oceanography
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy
- 57.220 The Senses

### 51.110 University Physics I

- 51.210 University Physics II
- 09.240 Oceanography
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy
- 57.220 The Senses

### 57.115 Experimental Foundations of Psychology

- 09.220 The Case for Evolution
- 15.200 Human Biochemistry and Health
- 51.220 Astronomy
- 57.200 Behavior Principles
- 57.220 The Senses
- 57.240 Drugs and Behavior

## Course Selection

Students select two courses, a foundation course followed by a more specialized course in an approved sequence, in each curricular area. Students will not be able to satisfy General Education Requirements with more than two courses in any one discipline even though a discipline may have courses included in more than one curricular area. Courses required for College Writing and College Mathematics do not count in the two-course limit.

## Prerequisites

A second-level course may not be taken for General Education credit unless the prerequisite foundation course has been completed. The university College Mathematics and Quantitative Competency requirement must be satisfied before the student enrolls in a foundation course in The Natural Sciences curricular area. The mathematics requirement may be taken concurrently with a Natural Science foundation course if the mathematics

course has 41.150 Finite Mathematics or its equivalent as a prerequisite.

## Relation to the Major

The requirements for the major, the area of a student's academic concentration, are listed under individual degree programs in this publication. Many of the courses in the General Education Program also meet requirements of the major. Students interested in a double major need to plan ahead if they expect to fulfill all requirements within 120 credit hours.

## Grading Requirements

To receive General Education credit, a student must successfully complete a General Education course with a grade of D or better. Students may elect to take a General Education course on a pass/fail basis. However, if the course is also being taken to fulfill a requirement for the major the grading policies for that program should be consulted.

## Advanced Placement Credit

Students presenting a 4 or 5 on the Advanced Placement examination, 75% on the CLEP examination, or grades for which they have received credit from the British A Levels, CEGEP, International Baccalaureate, German Abitur, or other international credential for which they have been granted credit by the American University may apply the credit for up to four courses to meet General Education requirements in any of the five curricular areas. Credit for General Education may be awarded only for examinations taken prior to entering the American University.

## Transfer Students

Transfer students satisfy their General Education Requirements through a combination of appropriate transfer courses and completion of courses in the General Education Program at the American University. Through the evaluation of equivalent courses taken at another institution and with the approval of a student's dean, transfer credit may fulfill all 30 credit hours. In some cases, students supplement transfer credit with General Education courses taken at the university to meet the 30-hour requirement. The need to satisfy sequences is waived when 6 hours in a curricular area are accepted for transfer credit.

## Associate in Arts Degree

In the fields in which the university offers an associate degree, this degree requires the completion of at least 60 credit hours. Twenty-four hours of courses must be in the General Education Program, to include one foundation course in each of the five curricular areas and one second-level course in each of three of the five curricular areas.

## Study Abroad

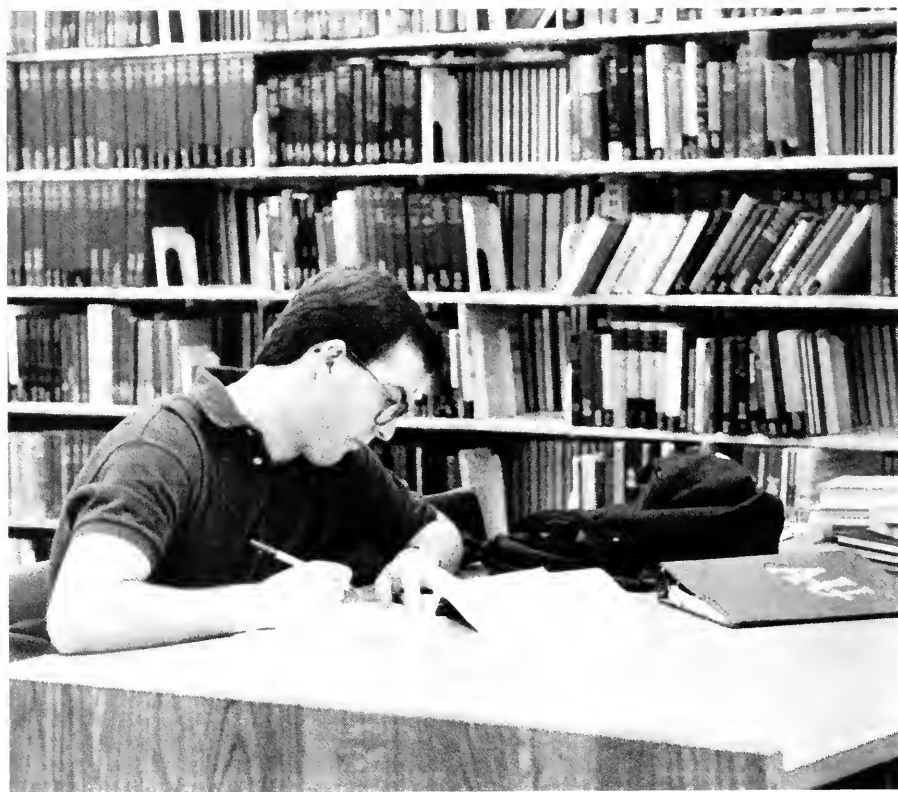
Students who choose to participate in Study Abroad in Rome, Brussels, Madrid, Vienna, Buenos Aires, London, or Santiago may substitute that experience for a second-level course in the designated sequence and receive 3 credits toward the General Education Requirements. No other Study Abroad programs have been approved for General Education credit.

## Study at Another Institution

Transfer credit may be used to fulfill General Education Requirements through the evaluation of equivalent courses taken at another institution and with the approval of the student's dean. Because of the special nature of the program, after the student has been admitted to a degree program at the American University **no** credit toward General Education Requirements may be earned through transfer credit.



The library clock—a gift from the graduating class of 1992





# Graduate Study

## Admission

The standard deadlines by which applications for graduate study and all supporting documents must be on file in the Office of Graduate Affairs and Admissions are as follows:

<b>Fall</b>	February 1*
<b>Spring</b>	October 1
<b>Summer</b>	March 1

\* Recommended submission date for fall admission. Applications will receive consideration up to June 1 unless otherwise stipulated. International applicants must apply by February 1.

Applicants should check the chart in this chapter for exceptions established by the teaching unit of the intended major.

Application to graduate school is self-managed. This means applicants assemble all of the admission components (application form, recommendations in sealed envelopes, and official academic transcripts in sealed envelopes) and mail them in the large mailing envelope enclosed in the Graduate Admission Application booklet to the Office of Graduate Affairs and Admissions. *Attendance at all institutions must be reported whether or not credit was earned.* Failure to report all previous academic work (undergraduate and graduate) will be considered sufficient cause for rejection of an application or for dismissal from the university.

Graduate applicants are also responsible for ensuring that any required test scores be sent directly from the testing service to the Office of Graduate Affairs and Admissions.

Since graduate programs are highly individualized, applicants are encouraged to schedule an appointment with the academic adviser in the teaching unit to which they intend to apply.

The applicant is required to submit the application form and a nonrefundable application fee of \$50. Forms may be obtained by writing or telephoning the Office of Graduate

Affairs and Admissions, Hamilton Building, (202) 885-3406.

## Notice of Admission

The Office of Graduate Affairs and Admissions will send the completed application and supporting documents to the appropriate academic unit for review. Usually departments will make a decision within four to six weeks. However, some departmental procedures take longer. Students should consult the department to which they are applying if they have questions about admission decisions.

Students who have applied for admission to a degree program must clear their admission status before registering for courses. Students who have not received notification of status should inquire directly of The Office of Graduate Affairs and Admissions before attempting registration. A provisionally admitted student will be designated as such at the time of admission.

Candidates for graduate degrees will be subject to the academic regulations in force at the time of their admission.

## Admission Requirements

The minimum university admission requirements for graduate study are outlined below. Please refer to the table following these requirements and to the appropriate college, school, and department sections of this publication for any additional requirements of the various units.

1. A bachelor's degree earned at an accredited college or university.
2. A 3.00 cumulative grade point average (on a 4.00 scale), in an undergraduate program, calculated on the last 60 credit hours of coursework completed and presented at the time of application for admission.
3. Maintenance of a cumulative grade point average of at least 3.00 (on a 4.00 scale) in all relevant graduate work for which a grade has been awarded.
4. An applicant for graduate study may be admitted without reference to the undergraduate average

provided the applicant has maintained on a 4.00 scale either a 3.30 cumulative grade point average in a master's degree program completed at an accredited institution, or a 3.50 cumulative grade point average in the last 12 credit hours of a master's or doctoral degree program still in progress at such an institution at the time the application is evaluated, or in graduate work taken in nondegree status at the American University and applicable to the degree program being applied for.

5. An applicant for graduate study may be admitted without a bachelor's degree earned at an accredited college or university or without reference to the undergraduate average provided that he or she is a midcareer person from government or the private sector who has not attended school full-time for at least eight years and is applying for admission to a professional master's degree program. This exception must be justified by an evaluation of the applicant's work performance and his or her organization's recommendation.

## Provisional Standing

Each college, school, or department of the university may admit to provisional standing a limited number of students who do not meet the minimum standards of either the university or the teaching unit. By the end of one full semester of full-time study or after the first 12 credit hours of part-time study, the student will be evaluated by the college, school, or department. Continuation in the graduate program will be permitted on favorable appraisal of the student's performance.

The provisional admission status of a graduate student who does not give satisfactory evidence of capability will be withdrawn. This constitutes dismissal of the student.

## Transfer of Credit

The university is liberal in accepting credit earned in the past. Nonetheless, a student who has not been engaged in formal study for a number of years or whose study has been intermittent, at the American University or elsewhere, must understand that full credit will not necessarily be granted for past work simply because it is a matter of record.

The evaluation of graduate work completed elsewhere by an entering graduate student, in terms of its applicability to the program at the American University, will be made by the office of the dean or department chair concerned no later than the completion of 12 credit hours of coursework.

Up to 6 credit hours earned at another institution may be applied to a master's degree. Up to 36 credit hours earned at another institution may be applied to a doctorate, including 30 credit hours for a master's degree earned at another institution and 6 credit hours beyond the master's degree.

For transfer credit, individual courses (that is, courses not part of a completed master's program) must have been completed with grades of B or better and must have been completed within seven years of the beginning of the semester for which the student is admitted to degree status at the American University.

In no case may graduate credit be given for coursework designated as undergraduate by the offering institution.

In all cases students are required to meet the residency requirements established by the university and any further residency requirements which may be stipulated for each program by the individual departments. The student should refer to the section on "Credit Hour and Residence Requirements" and consult the individual department for further details.

## Admission from Nondegree Status

Students who have not been denied admission to a degree program within the preceding year may enroll in nondegree status at the American University. (For more information, see "Nondegree Study.") A student registered in nondegree status who later establishes eligibility for admission to graduate degree status may apply a total of no more than 12 credit hours of graduate work completed while in nondegree status toward meeting the requirements for a graduate degree, provided the courses were completed within seven years of the beginning of the semester for which the student is admitted to degree status. To be considered for admission to degree status at the graduate level, a nondegree student must have maintained a grade point average of at least 3.00 (B) on a 4.00 scale in all graduate-level work.

There is no guarantee that a nondegree student will be accepted into a degree program.

Students admitted to degree status ordinarily may not thereafter register as nondegree students until they have successfully completed their degree requirements.

## Readmission

After expiration of the time limit for completion of a graduate degree program, readmission may be granted once for a period of three years (less any time given in previous extensions of candidacy), subject to the requirements of the particular degree in effect at the time of readmission, and may involve taking additional courses or other work or both. When a student is readmitted under these circumstances, the length of time that the student will be given to complete degree requirements and any additional courses, examinations, or other requirements which are deemed necessary by the teaching unit will be specified. Students applying for graduate readmission must pay a fee of \$50.

# Graduate Admission Requirements

Teaching Unit	Degrees Offered	Applications Accepted for:	Application Deadline	Requirements in Addition to University Requirements
<i>College of Arts and Sciences</i>			<i>All applications will receive consideration up to June 1 unless otherwise stipulated.</i>	<i>Note: For degree, grade point average, and test-score requirements, consult the individual program descriptions in this publication.</i>
Anthropology	M.A., Ph.D.	All terms, preferably fall.	Standard*, should apply by January 15 to ensure consideration for fall financial aid.	Two academic letters of reference; an example of student's work, e.g., term paper; send GRE scores if applying for financial awards. Additional information available from department.
Art	M.A., M.F.A.	All terms for M.A.; fall only for M.F.A..	Standard*, should apply by February 1 to ensure consideration for financial aid.	Two letters of recommendation if previous degree not earned in department. Art History: Must have at least 24 undergraduate hours in art history. GRE scores required. Fine Arts: Slide portfolio must be submitted to department.
Biology	M.A., M.S.	Spring or fall.	Standard*	Three letters of recommendation; only one may be from current place of employment; GRE General and Subject.
Chemistry	M.S., Ph.D.	All terms.	Standard*	Two letters of recommendation.
Computer Science and Information Systems	M.S.	All terms.	Standard*	Previous course work, work experience, or willingness to do remedial work before beginning program; two letters of recommendation.
Economics	M.A., Ph.D.	All terms, fall preferred.	Standard*, but Ph.D. advised to apply before February 1 for fall, October 1 for spring.	Two academic letters of reference with university application; GRE General Test. International students submit TOEFL scores. Extensive personal statement required.
Education, School of	M.A., M.A.T., Ed.D., Ph.D.	All terms.	Standard*	Two academic letters of reference with university application; GRE General or Miller Analogies Test. International students submit TOEFL scores. Extensive personal statement required.
Health and Fitness	M.S.	All terms.	July 15	Program application, two letters of recommendation, Human Anatomy and Physiology, and Exercise Physiology. GRE or GMAT required.

\*The standard deadlines for application are: fall, February 1 (recommended submission date, non-international applications will receive consideration up to June 1 unless otherwise stipulated); spring, October 1; summer, March 1. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 1 regardless of the teaching unit's application deadline. Consult the current *Application for Graduate Admissions and Financial Awards* for complete information.

## Graduate Admission Requirements (cont.)

Teaching Unit	Degrees Offered	Applications Accepted for:	Application Deadline	Requirements in Addition to University Requirements
<i>College of Arts and Sciences (cont.)</i>			<i>All applications will receive consideration up to June 1 unless otherwise stipulated.</i>	<i>Note: For degree, grade point average, and test-score requirements, consult the individual program descriptions in this publication.</i>
History	M.A., Ph.D.	All terms.	Standard*	Two letters of recommendation from recent professors; GRE Verbal, Quantitative, and Analytic; no direct admission to Ph.D. from B.A. level; Ph.D. applicants should have a substantial beginning in a tool of research. Ph.D. applicants must submit directly to the department a substantial sample of recent written work.
Language and Foreign Studies	M.A.	All terms.	Standard*	Two letters of recommendation from recent professors unless previous degree earned in department. Language and Foreign Studies: B.A. degree or equivalent in the foreign language and proficiency in appropriate language and culture. TESOL Programs: International students must take TOEFL with minimum score of 600.
Literature	M.A., M.F.A.	All terms; fall or spring for Film and Video.	Standard* Film and Video: June 1 except for graduate assistantships.	Two letters of recommendation; GRE General recommended; samples of written work desirable, required for M.F.A.; interview recommended. Send writing samples to department. Film and Video: 1,000 word statement of purpose sent directly to Graduate Film and Video Program Director, School of Communication.
Mathematics and Statistics	M.A., M.S., Ph.D.	All terms, preferably fall.	Standard*	Two letters of recommendation; Ph.D. in Mathematics Education requires master's degree in education or mathematics. Ph.D. in Statistics requires a master's degree in statistics or strong mathematical background.

\*The standard deadlines for application are: fall, February 1 (recommended submission date, non-International applications will receive consideration up to June 1 unless otherwise stipulated); spring, October 1; summer, March 1. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 1 regardless of the teaching unit's application deadline. Consult the current *Application for Graduate Admissions and Financial Awards* for complete information.

## Graduate Admission Requirements (cont.)

Teaching Unit	Degrees Offered	Applications Accepted for:	Application Deadline	Requirements in Addition to University Requirements
<i>College of Arts and Sciences (cont.)</i>			<i>All applications will receive consideration up to June 1 unless otherwise stipulated.</i>	<i>Note: For degree, grade point average, and test-score requirements, consult the individual program descriptions in this publication.</i>
Performing Arts	M.A.	All terms.	April 15	Two letters of recommendation; interview/audition preferred (required for provisional-status students and performance majors). Music composition majors must present a folio of three compositions of different kinds.
Philosophy and Religion	M.A.	All terms.	Standard*	Philosophy: Two letters of recommendation; an introductory course in philosophy with a grade of B or better; GRE General recommended. Philosophy and Social Policy: Two letters of recommendation; an introductory course in philosophy with a grade of B or better; GRE optional. Religion: Two letters of recommendation; GRE General recommended.
Physics	M.S., Ph.D.	All terms.	Standard*	Ph.D.: Two letters of recommendation unless previous degree earned in department.
Psychology	M.A., Ph.D.	Ph.D.: fall only; M.A., all terms.	January 15 for clinical program; Standard* for master's program.	Letters of recommendation: two for M.A.; three for Ph.D. GRE General and Advanced Psychology required. Consult department for details.
Sociology	M.A., Ph.D.	All terms.	Standard*	Two letters of recommendation. GRE General recommended but not required.

\*The standard deadlines for application are: fall, February 1 (recommended submission date, non-international applications will receive consideration up to June 1 unless otherwise stipulated); spring, October 1; summer, March 1. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 1 regardless of the teaching unit's application deadline. Consult the current *Application for Graduate Admissions and Financial Awards* for complete information.

## Graduate Admission Requirements (cont.)

Teaching Unit	Degrees Offered	Applications Accepted for:	Application Deadline	Requirements in Addition to University Requirements
<i>School of Communication</i>	M.A.	Fall for Journalism and Public Affairs; fall or spring for Film and Video; fall for Public Communication.	Journalism and Public Affairs: March 1. Film and Video: June 1, except for graduate assistantships. Public Communication: June 1, except for graduate assistantships.	Journalism and Public Affairs: School of Communication (SOC) application form and 1,000-word statement sent directly to Graduate Journalism Admissions Committee, SOC. Film and Video: GRE General; 1,000-word statement of purpose sent directly to Graduate Film and Video Program Director, SOC. Public Communication: 1,000-word statement of purpose sent to Graduate Public Communication Program Director, SOC. All programs: two letters of recommendation and graduate application are required, must be submitted directly to the Office of Admissions. International students must submit TOEFL scores; score of 600 required for Journalism and Public Affairs.
<i>Kogod College of Business Administration</i>	M.B.A., M.S., J.D./MBA	M.B.A.: fall, spring J.D./MBA: fall, spring M.S.: all terms	Standard* Note: Although applications will be considered until June 1, the February 1 deadline ensures timely processing.	Two letters of recommendation from professors or employers; GMAT for all programs. Applicants for the JD/MBA must take both LSAT and GMAT and apply directly to the Washington College of Law (WCL). However, students who have been admitted to WCL will not be required to take the GMAT.
<i>School of International Service</i>	M.A., J.D./M.A., M.S., Ph.D.	M.A., J.D./M.A., M.S.: fall, spring Ph.D.: fall only	Ph.D. and M.A./M.S.: <b>January 15.</b> Financial aid: <b>January 15.</b> Fall: <b>January 15.</b> M.A./M.S. spring: October 1.	Two letters of recommendation for M.A., M.S., three for Ph.D. GRE General. International students educated abroad must take TOEFL in addition to the GRE. For J.D./M.A., applicants must have completed first year in the Washington College of Law. LSAT accepted in place of GRE.

\*The standard deadlines for application are: fall, February 1 (recommended submission date, non-international applications will receive consideration up to June 1 unless otherwise stipulated); spring, October 1; summer, March 1. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 1 regardless of the teaching unit's application deadline. Consult the current *Application for Graduate Admissions and Financial Awards* for complete information.

## **Graduate Admission Requirements (cont.)**

<b>Teaching Unit</b>	<b>Degrees Offered</b>	<b>Applications Accepted for:</b>	<b>Application Deadline</b>	<b>Requirements in Addition to University Requirements</b>
<b><i>School of Public Affairs</i></b>				
Government	M.A., Ph.D.	M.A.: all terms; Ph.D.: fall.	Standard* M.A.: February 1 for financial awards; Ph.D.: February 1.	Two letters of recommendation; M.A.: GRE General, essay on career interest; Ph.D.: preference given to full-time candidates; GRE General and statement of purpose required.
Justice, Law and Society	M.S., J.D./M.S., Ph.D.	All terms.	Standard*; M.S., Ph.D.: February 1 for financial awards.	Two letters of recommendation; GRE General for M.S. and Ph.D.; J.D./M.S. applicants must have completed first year in Washington College of Law; LSAT scores accepted in place of GRE scores for J.D./M.S. applicants.
Public Administration	M.S., M.P.A., M.S.O.D., Ph.D.	M.S., M.P.A.: all terms; M.S.O.D.: consult department; Ph.D.: fall.	M.S., M.P.A.: standard*; M.S.O.D.: consult department; Ph.D.: February 1.	Two letters of recommendation; M.S., M.P.A.: GRE General required for financial awards, essay on career interest; M.S.O.D.: Two years of managerial experience. Ph.D.: preference given to full-time candidates; GRE General and statement of purpose required.
<b><i>Washington College of Law</i></b>	J.D. J.D./M.A. J.D./M.B.A. J.D./M.S.	Entering students: fall only. Advanced students: all terms.	Entering students: March 15.	Baccalaureate degree from an accredited college or university; LSAT; LSDAS. For the J.D./M.B.A., applicants must take both the LSAT and the GMAT. Apply directly to the Washington College of Law.
<b><i>Interdisciplinary Studies</i></b>	M.A., M.S.			Graduate students must first be accepted into another program and may then transfer into an interdisciplinary studies program.

\*The standard deadlines for application are: fall, February 1 (recommended submission date, non-international applications will receive consideration up to June 1 unless otherwise stipulated); spring, October 1; summer, March 1. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 1 regardless of the teaching unit's application deadline. Consult the current *Application for Graduate Admissions and Financial Awards* for complete information.

# University Degree Requirements

It is university policy that no student shall be involuntarily subjected to regulations and academic requirements introduced during the student's continuous enrollment in good standing in a single degree program if the new regulations involve undue hardships or loss of academic credits earned to satisfy the requirements previously in effect.

Graduate students are governed by the following minimum requirements for the graduate degree (each teaching unit may have further requirements). Graduate students are advised to consult their own adviser, department chair, or dean for detailed information.

## Credit Hour and Residence Requirements

### Master's Degrees

At least 30 credit hours of graduate work including (a) 6 credit hours of research resulting in a thesis (the thesis option) or (b) 6 credit hours of graduate work with grades of B or better involving a case study, an in-service project, an original creative work, specified research courses, or such other effort as the academic unit may designate (the nonthesis option).

At least 24 of these hours, including the thesis or nonthesis option, must be completed in residence at the American University. Up to 12 credit hours taken in nondegree status at the American University may be counted toward the degree, or up to 18 credit hours if earned in a completed graduate certificate program.

### Doctoral Degrees

For students admitted to graduate work at the American University without a previously earned master's degree, the requirement is 72 credit hours of graduate study including no fewer than 6 and no more than 24 hours of directed study on the dissertation. At least 42 of these hours, including the research requirement, must be completed in residence at the American University. Up to 12 credit hours taken in nondegree status at the American University may be counted toward the degree, or up to 18 hours if earned in a completed certificate program. Course credit earned toward a master's degree at the American University may, if relevant, be counted toward the Ph.D. degree.

For students admitted with a master's degree earned previously, the requirement is at least 42 credit hours of additional graduate work, of which 36 hours, including the research requirement, must be completed in residence at the American University.

### Prerequisite Undergraduate Credit

Credit earned in undergraduate courses taken as required prerequisites for other courses by graduate students may not be counted toward satisfying the total credit requirement for a graduate degree, and grades earned in

such courses are not used in calculating the student's grade point average.

### Graduate-Undergraduate Courses

Graduate students may take graduate-level courses that meet with undergraduate-level courses. However, no more than 50 percent of coursework taken in residence (not counting thesis or dissertation seminars without regular meetings) may be taken in joint graduate-undergraduate courses.

### Transfer of Credit from One American University Advanced Degree to Another

A student may transfer 6 credit hours from one master's degree earned at the American University to another master's degree to be completed at the American University. A student pursuing a second doctoral degree at the American University may transfer a total of 36 credit hours from one doctoral degree to another. However, the student must complete an additional 36 credit hours of graduate work in residence in that new doctoral degree program.

## Grade Requirements

Students enrolled in a graduate program must maintain a cumulative grade point average of at least 3.00 (on a 4.00 scale) in order to remain in good standing and to graduate. The calculation of the graduate cumulative grade point average is specific to the program in which a student is enrolled. Only graduate-level American University courses that are accepted by the degree-conferring teaching unit as fulfilling degree requirements are included in the cumulative grade point average.

### Minimum Grades

No degree credit is earned by a graduate student for any grade lower than C (2.00 on a 4.00 scale) received in a graduate-level course. However, grades lower than C are used in calculating the grade point average.

## Tools of Research

Each academic unit specifies the tool-of-research requirement. Tools should relate to research in the student's discipline. The student's satisfaction of tool requirements is certified by the teaching unit, but aid in ascertaining this may be sought outside the unit.

## Advancement to Candidacy

Each academic unit may at its discretion require a formal advancement to candidacy and determine the nature of the advancement procedure it will use.

## Examinations

### Master's Degrees

At least one comprehensive examination, the nature and scope of which are determined by the academic unit, is required.



An oral examination on the thesis may be required by the academic unit.

### Doctoral Degrees

At least four comprehensive examinations are required, at least one of which must be oral. At least two of the comprehensive examinations must be written and must be taken within one year following the completion of the residence requirement. A qualifying examination and master's comprehensive examination, if taken at the American University, may, at the discretion of the academic unit, be credited toward the comprehensive requirements for a doctoral degree. Comprehensive examinations given by other institutions will not be credited toward the satisfaction of degree requirements.

An oral examination on the dissertation is also required.

### Examination Timetable

For both master's and doctoral degree students, the dean or department chair (or designated representative) determines the time and eligibility for taking the comprehensive, tool, and (where required) oral examinations.

Application to take comprehensive examinations is made to the academic unit on a standard form available from that office. After approval is obtained, the student pays the appropriate fee at the Office of Student Accounts. In most cases, students should plan to apply during the first week of classes of the semester in which they plan to take the examinations.

### Examination Fields

Although fields for comprehensive examinations may have been planned early in the graduate student's academic career, it is possible to change the fields up to the time the student actually submits an application to take the comprehensive examinations. Each college, school, or department offers its current list of standard comprehensive examination fields, including certain "core" fields and areas in which candidates in particular degree programs must present themselves for examination. (These fields are listed under the various teaching units in this publication.) A student may choose from the list (including the required core) the ones that are appropriate to the student's own interests and objectives.

In some disciplines, it is possible to choose a field outside the major area of interest, but such a field must be one that is available at the time of the candidate's application to take the comprehensive examinations.

### Examination Grading

Usually, each comprehensive examination written by a candidate is read by two readers and is rated "distinction," "satisfactory," or "unsatisfactory" by each. In order to pass the examinations, the candidate must obtain at least "satisfactory" from both readers in each of the examination fields. In the event of a disagreement in the ratings between readers as to whether or not the candidate should pass, a third reader is appointed to break the deadlock.

Each dean or department chair may, however, elect to determine a different system of grading comprehensive examinations. Students should consult the specific college, school, or department to ascertain what system is used.

The system described above is the traditional one used by most of the university.

### Re-examination

**Comprehensive Examination:** A student who fails a comprehensive examination (other than a qualifying examination) may be permitted additional attempts within two years. The nature and extent of the examination to be retaken and the number of retakes allowed will be determined by the academic unit. Teaching units may establish their own rules for retaking qualifying examinations.

**Thesis and Dissertation Oral Examinations:** In the event of failure to complete the oral examination satisfactorily, the academic unit may, at its discretion, permit one retake.

## Theses and Dissertations

### Thesis and Nonthesis Options

For master's candidates, the thesis is expected to demonstrate the student's capacity to do original, independent research. Some colleges, schools, and departments offer the opportunity to substitute a case study, an in-service project, an original creative work, or specific advanced research courses in lieu of a thesis. In each such case, the thesis seminar or other accepted alternative must be considered part of the residence requirement for the master's degree and must meet the standards of the individual college, school, and department as well as those of the university.

No academic credit is given for the master's thesis unless the student registers for the thesis seminar. However, a student should not enroll for this seminar until ready to start work on the formal thesis proposal or the thesis itself. Traditionally, an advisory committee is appointed for each candidate working on a thesis. The committee may be composed of no fewer than two members, at least one of whom must be a member of the full-time faculty. An oral examination by this committee is often required. Suggestions for revision may be made as conditions that must be met before members will sign the title page of the thesis. If the chair of the thesis committee or the department chair certifies failure to complete a satisfactory thesis, the student may be dismissed from the university.

A student who writes a thesis must adhere to the required form and content for the proposal and to the other procedures described in detail in the published guides that may be obtained from the office of the dean of the college or school.

Students electing the nonthesis option should consult the individual program descriptions in this publication and obtain specific departmental requirements from their teaching units. The university minimum requirement is two research-oriented courses. These courses must be completed with grades of B or better.

### Dissertation

Capping the requirements for the doctorate is the dissertation, together with the required oral examination of the dissertation by the student's teaching unit. Normally, the candidate must have completed all other academic requirements for the degree before the oral examination can be held.

## 40 Graduate Study

A candidate who is declared ready to proceed to the dissertation must submit a dissertation topic proposal reporting the results of preliminary research. This proposal should contain, among other things, a concise statement of the major problem of research and of related supporting problems, the data to be used, a selected bibliography, a statement of the probable value or importance of the study, a brief description of the methods to be used, and a preliminary outline of the dissertation in some detail.

After approval of the proposal by the candidate's adviser, it is presented to the dean of the college or school for final approval. Acceptance of the proposal indicates that the topic is a suitable one and that the dissertation will be accepted if developed adequately by the candidate. The university will take responsibility for directing research only in fields and problem areas that its faculty members feel competent to handle. Acceptance of a dissertation topic proposal under no circumstance commits any department or school or the university to accept the dissertation itself.

A dissertation advisory committee of three to five persons is usually appointed by the candidate's academic dean for each candidate undertaking a dissertation. After the draft manuscript has received the tentative approval of all members of the committee, the committee chair arranges for the oral examination. This covers the dissertation itself and the general field of study. Conditions to be met before final acceptance of the dissertation may be specified without necessarily holding a second oral examination.

### Protection of Human Subjects

Any proposed thesis or dissertation in which research will involve experimenting on, interviewing, surveying, or observing human beings is subject to review under the regulations of the American University to determine whether the researcher has made adequate provision for the protection of human subjects. The American University regulations are based on 45 Code of Federal Regulations (CFR) 46, "Protection of Human Subjects."

Candidates who request outside funding for research have their proposals reviewed by the University Institutional Review Board (IRB). If no outside funding is involved, the teaching unit IRB designee conducts the review and submits a report for IRB records. Each candidate is requested to complete the American University Institutional Review Board form, "Research Proposal Review." It is the responsibility of the degree candidate to submit the form for review and to make any revisions required to the research plan to bring it into compliance.

Copies of the university's regulations, 45 CFR 46, the review form, and additional information are available from the teaching unit chair or IRB designee for human subject review, or from the Compliance Administrator in the Office of Research Services.

### Thesis or Dissertation Progress

It is the collective responsibility of the student, the student's adviser, and the student's committee to ensure that satisfactory progress is being made on the student's thesis or dissertation. The student may request, at least once each semester, that the committee meet with him or her to discuss progress.

### Final Manuscript

Candidates are responsible for being familiar with and complying with the regulations concerning the form and preparation of the final manuscript, abstract, copyright, and so forth, which may be obtained from the dean or department chair of the teaching unit offering the doctorate. Certain deadline dates are found in the *Schedule of Classes* published for each academic term. These must be met if a candidate expects to receive a degree at the appropriate commencement.

### Filing of Thesis or Dissertation

On completion of the final manuscript, a student obtains the signature of the department chair and dean on the Thesis/Dissertation Completion form, and takes the form and the manuscript to the Office of Student Accounts to pay the fee. This fee is required for entering into the mandatory agreement with University Microfilms. Every thesis and dissertation must be microfilmed. The student then proceeds to the Office of the Registrar for certification of the completion of degree requirements, and then to the library for filing of the manuscript. This procedure is to be followed after all other requirements for the degree have been satisfied.

### Publication

It is the policy of the university to encourage publication of dissertations, case studies, and theses, with acknowledgment to the university. If substantial alterations are made before publication, this fact must be noted in the prefatory statement that gives acknowledgment.

## Academic Standards and Regulations

### Academic Probation and Dismissal

A graduate student who fails to maintain a 3.00 grade point average (on a 4.00 scale) after completion of the first 12 credit hours of graduate study may be placed on academic probation for one semester, after which the student must achieve and maintain a 3.00 average or be dismissed. A graduate student may be placed on academic probation only once. It should be noted that the grade point average is only one measure of academic performance. Maintenance of the required average does not necessarily imply that a student is making satisfactory progress, and the university reserves the right to dismiss a student whose performance is judged unsatisfactory even though the student has maintained the required grade point average. A student who is dismissed may not be readmitted to the university or enroll as a nondegree student for a full year after the effective date of the dismissal.

## Academic Load and Full-Time Status

The normal load of full-time graduate study is 9 to 12 credit hours a semester; however, an academic unit may declare circumstances under which full-time involvement in thesis or dissertation research constitutes full-time standing.

In summer sessions, because of the combination of six-week and seven-week sessions, there are various possibilities for full-time standing. Usually, registration for 6 credit hours during any session is considered full-time.

## Maintaining Matriculation

Students whose degree requirements have not been completed and who have not been granted a leave of absence must register each fall and spring semester during regular registration periods for courses, for thesis or dissertation seminars, or for maintaining matriculation. Those who do not will be considered as having withdrawn. Such students may then reapply and, if readmitted, are governed by requirements and regulations in effect at the time of readmission.

Students who change degree objective, college, or school, whose candidacy for an advanced degree expires, or who choose to conform to new regulations or requirements must be prepared to complete all requirements and abide by all regulations in effect at the time such a change is made.

## Statute of Limitations

Candidates for a master's degree must complete all degree requirements no later than three years after the date of first enrollment in the degree program. Candidates for the doctoral degree must complete all degree requirements no later than five years after the date of first enrollment in the doctoral program, or seven years if the doctoral program was entered directly from a bachelor's degree.

A student may petition for an extension of candidacy in a degree program for a limited period if such extension is sought before these time limits expire. In no case may the total amount of time granted in extensions of candidacy exceed three years. If, however, the time limit has expired, a student may seek readmission to the university for a period of no more than three years, less any time granted in previous extensions of candidacy.

Readmission to an advanced degree program may involve completing additional courses or other appropriate work. Any degree calling for additional undergraduate prerequisite courses has the statute of limitations extended for the amount of time required to complete them.

## All But Dissertation Master's

Students who enter a doctoral program without a master's degree may be awarded the appropriate master's degree by the American University in the field in which their doctoral work is being done when they have completed all requirements for the doctorate except the dissertation.

## Leave of Absence

If a student is unable to pursue course work or to work with faculty for a fall or spring semester, the dean of the

student's teaching unit may authorize a leave of absence for one or two semesters, during which the student's enrollment status in the degree program would be maintained. During a leave of absence, the student is not entitled to use the services of the university. Time limitations for completing graduate degrees continue to apply during periods when students are on leaves of absence. Students may petition for an extension of candidacy at the time they apply for a leave or at a later time. Procedures for granting leaves of absence may vary among schools and colleges.

A graduate student taking a leave of absence because of military or government assignment required as a direct result of hostilities or war, or for incarceration resulting from refusal to accept induction under such circumstances, may receive a tuition refund and have other charges prorated on the basis of the number of weeks during which the student was registered for classes in a given semester. If a student has completed at least ten weeks of a session, he or she may be given full credit for any course, subject to the approval of the instructor and department chair. Additional work may be required. No tuition refund will be given for courses for which credit was given. A student whose studies are interrupted for the reasons stated above may resume study at the American University in the same degree program, provided he or she returns within a period of six months following the completion of duties and provided that the degree program in which the student was enrolled is still offered. A student who wishes to be enrolled in a different degree program must apply for readmission.

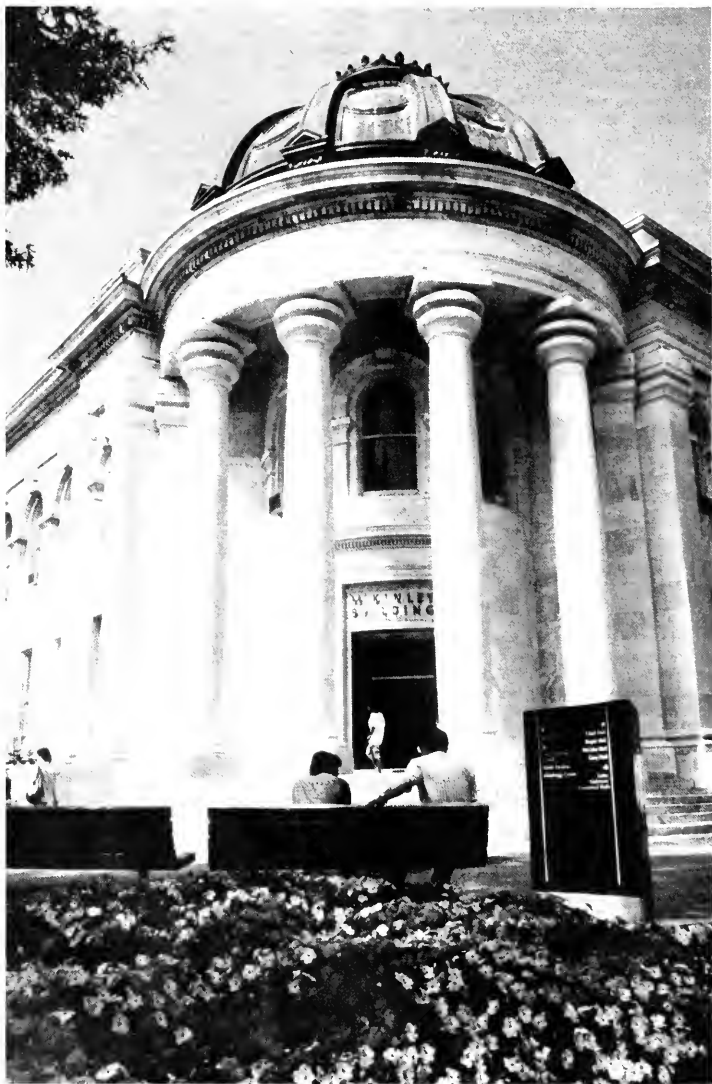
## Changes in Field of Study

A graduate student who wishes to change field of study or school affiliation may request an approval of the change on the appropriate form available in the Office of the Registrar. A graduate student who wishes to change colleges must apply through the Office of Graduate Affairs and Admissions. A student who changes field of study may lose credit already earned in other study that is not appropriate to the new program.

## Study at Another Institution

In a program of graduate study, circumstances may arise wherein a graduate student, with the advice and counsel of the student's academic unit, may find it appropriate to take a graduate course available only at a non-consortium institution. In this event, the student must secure advance approval in writing from his or her adviser and dean. Approval is granted for specific courses. The student must, however, conform to regulations governing the maintenance of matriculation at the American University during each fall and spring semester. In addition, the student must still satisfy the residence requirement of the university.

Transferred courses must be completed with a grade of B or better for graduate degree credit. Grades for transferred courses are not recorded on the American University's permanent record or computed in the student's grade point average.



The McKinley Building houses the University Programs Advising Center.

# Nondegree Study

Nondegree status is the designation used for students who are enrolled in credit courses at the American University and are not currently pursuing a degree program. Many students begin their studies in nondegree status and apply the credit they have earned toward a degree program in one of the schools or colleges of the university.

The University Programs Administration and Advising Center (UPAC) provides academic counseling and registration support for all nondegree students and students in certificate programs. The center also handles registration for noncredit workshops and seminars. UPAC is located in the McKinley building, room 153. For information call (202) 885-2500.

## Enrollment Criteria

Nondegree students may enroll in any university course for which they have the necessary academic background and qualifications.

Undergraduate-level courses are open to high school graduates; students in good standing at other accredited colleges and universities; students with an undergraduate degree; and high-school students who have a B average and the recommendation of their high school counselor or principal.

Graduate-level courses are open to students who have completed a bachelor's degree.

The following students ordinarily may not register in nondegree status:

- Students currently enrolled as undergraduate- or graduate-degree students in any of the member institutions of the Consortium of Universities of the Washington Metropolitan Area;
- American University students who have not completed their degree programs;
- Students who have been dismissed from the American University or another college or university within the previous twelve months;

## Special Departmental Requirements

**Kogod College of Business Administration:** To register for undergraduate courses at Kogod College, students must be able to demonstrate that prerequisites have been met. If prerequisites have been completed at a college/university other than the American University, students must provide copies of appropriate transcripts.

To register for graduate-level courses at Kogod College, students must have satisfactory GMAT scores and a satisfactory grade point average in the last 60 hours of undergraduate work. Students must provide copies of all undergraduate and graduate transcripts and the GMAT results.

*Note:* Departmental approval must be obtained for all business administration courses.

**School of Communication:** To register for undergraduate communication courses, students must obtain permission from the School of Communication. Special procedures apply for students who wish to register for graduate communication courses. Call the Advising Center for more information at (202) 885-2500.

**Other:** Departmental approval must be obtained for all courses at the 600 or 700 level and for all courses in Applied Music and the English Language Institute.

## International Students

Special regulations apply for students who are not citizens or permanent residents of the United States of America. (For more information, see the International Student Information chapter in this catalog.) International students are advised to request information on enrollment policies from the University Programs Administration and Advising Center.

## Registration

Nondegree students register for courses through the University Programs Administration and Advising Center. Information on university degree programs, certificate programs, and courses is available at the Advising Center, which is staffed with experienced academic advisers who are familiar with the particular needs of part-time and adult students. The center is open throughout the year and holds evening hours.

Students planning to transfer academic credit from another institution into an undergraduate degree program should consult with an academic adviser before their first nondegree registration and should bring with them all transcripts of previous college work.

## Academic Standards

Nondegree students are held to the same academic standards as degree students. Undergraduate students

must maintain a 2.00 (C) grade point average; graduate students must maintain a 3.00 (B) grade point average.

## Transferring from Nondegree to Degree Status

Students may apply a specified amount of credit earned in nondegree status toward a degree program.

Undergraduate students may apply up to 30 credit hours taken in nondegree status toward an undergraduate degree program.

Graduate students may apply up to 12 credit hours of graduate-level courses taken in nondegree status toward a graduate degree program or up to 18 hours if earned in a completed certificate program.

To apply to a degree program students must submit the appropriate application forms and supporting documents.



# International Student Information

The following regulations apply to all students who are not citizens or "permanent residents" of the United States of America.

## Degree Admission

### **Undergraduate degree programs**

*First time in college:* Submit to the Office of Admissions: 1) a completed Undergraduate Application Form, 2) a 300-500 word essay, 3) official transcripts or certified copies of coursework completed from all secondary schools attended, 4) a secondary school report form, 5) two letters of recommendation, and 6) a nonrefundable U.S. \$45 application fee payable, by check, to The American University. International undergraduate applicants may apply as Early Decision candidates.

*Undergraduate transfers:* Submit to the Office of Admissions: 1) a completed Undergraduate Application Form; 2) a nonrefundable U.S. \$45 application fee payable, by check, to The American University, and 3) official transcripts or certified copies of coursework completed at the university level.

**Graduate degree programs** Application to graduate school (except for law school programs) is self-managed. This means applicants assemble all the following admission components and send to the Office of Graduate Affairs: 1) completed application for graduate admission, 2) recommendations in sealed envelopes, 3) a Statement of Purpose, 4) official transcripts from all undergraduate and graduate institutions in sealed envelopes, and 5) a nonrefundable U.S. \$50 application fee payable, by check, to The American University. Applicants must request the Educational Testing Service (ETS) to send an official copy of required test scores to the American University (CEEB number is 5007). Applicants to a graduate program should check the Application for Graduate Admissions and Financial Awards for specific program deadlines.

For information on applying to the law school, contact the admissions office, Washington College of Law.

**English Language Requirement** All international students whose native language is not English and who are applying for admission as undergraduate or graduate de-

gree students are required to take the Test of English as a Foreign Language (TOEFL). Information regarding procedures for taking this test may be obtained from TOEFL, Educational Testing Service, Princeton, NJ 08541, USA, or from secondary school counseling offices, U.S. consulates, or bi-national centers. Undergraduate applicants who submit a TOEFL score of 600 or above, or an SAT verbal score of 500 or above, are exempt from taking an English placement test upon arrival on campus, as are graduate applicants who submit a TOEFL score of 600 or above. Students who have graduated from a regionally accredited U.S. college or university in the United States with a bachelor's, master's, or Ph.D. degree may also be considered for waivers from English placement testing.

**Nonimmigrant Student Visa Procedures** To expedite an international student's application for F1 or J1 nonimmigrant or exchange visitor student status, it is advisable that the Personal Immigration and Information Request Form (PIIRF) and appropriate supporting documents be completed and submitted with the application. To obtain a student visa, applicants should contact the nearest U.S. Consulate for information on application requirements, procedures, and processing time.

## Nondegree Enrollment

All international nondegree students must begin their registration in the University Programs Administration and Advising Center (UPAC) and must present evidence of successful completion of high school (or its equivalent) and of courses taken in any colleges or universities attended. Nondegree international students should present translated documents for evaluation and counseling purposes. These documents remain in the student's file in the Advising Center. International students in nondegree status must request that official documents be sent to the office of undergraduate or graduate admissions when they apply for admission to a degree program.

## English Language Requirement

All students, degree and nondegree, whose first language is not English are required to have their English proficiency evaluated by the English Language Institute (ELI) before their first registration unless they meet the waiver criteria stipulated for degree applicants (see English Language Requirement under Degree Admission above). Students whose command of English is insufficient to follow the program in which they wish to enroll will be required to take special courses in English as a second language.

Students placed in four English courses (Intensive English) may not take any other courses concurrently. Exceptions require the permission of the English Language Institute and the student's academic adviser.

## Visa Requirements

Students in nonimmigrant F1 and J1 status are required by U.S. Immigration and Naturalization Service (INS) regulations to maintain a full-time course load enrollment during fall and spring semesters. If the student's first term is a summer session, the full-time course load requirement will apply for that summer. It is the individual student's responsibility to comply with INS regulations.

To meet the INS full-time course load requirement at the American University each semester, undergraduate students are required to register for a minimum of 12 credit hours, graduate students for a minimum of 9 credit hours, and LL.M. law students for a minimum of 8 credit hours. International students enrolled only for English as a second language must register for 18 English Language Institute (ELI) contact hours each semester (contact hours vary depending on ELI classes and lab work; consult with ELI for specifics). Any change in registration which results in a course load below these minimum requirements must be authorized by the Office of International-Intercultural Student Services (OIS) in consultation with the student's academic adviser.

Students in F1 or J1 status who fail to meet these requirements are considered by INS to be "out-of-status" and lose their eligibility for all immigration benefits including on-campus employment and practical training and are subject to deportation.

All students in F1 nonimmigrant status are required to attend, initially, the educational institution which issued the Certificate of Eligibility form I-20 used to obtain F1 status.

A student in F1 or J1 status is reminded that a change of school from one U.S. educational institution to another must be made according to INS regulations. At the American University such changes are handled through the Office of International-Intercultural Student Services.

Students in Exchange Visitor (J1) status requesting a transfer to the American University should consult with the Office of International-Intercultural Student Services (OIS) before registering for classes. Transfer from one exchange visitor program to another requires a release from the previous program sponsor and/or the approval of the INS. It is advisable that all students entering the university in J1 status at the time of admission consult with OIS before registering for classes.

Questions concerning INS regulations governing foreign students, exchange visitors, or foreign researchers or faculty should be directed to the Office of International-Intercultural Student Services (OIS), Butler Pavilion 408, telephone: (202) 885-3350, fax: (202) 885-3354. Regular office hours are Monday through Friday, 9:00 a.m. to 5:00 p.m.; extended hours are followed during periods noted in the *Schedule of Classes* as "Extended Hours" and "Late Registration."

## Health Insurance

Health insurance is mandatory for all full-time degree, resident, and international students (except those in A, G, and H status). Students are automatically billed for a university-sponsored plan when they enroll. If a student is covered by a similar plan paid for by their family, employer, sponsor, or government, the student may waive the university coverage by completing the university insurance waiver form. Waiver forms are included as part of the university's billing statement or may be obtained from the Student Health Center or Director of Student Services office. The deadline for waiving the university-sponsored insurance expires on November 1, 1994 (for students with initial registration in the fall semester) and on March 1, 1995 (for students with initial registration in the spring semester). An insurance waiver must be filed each academic year.

## Registration Procedures

In addition to the normal registration instructions, the following regulations apply to international students.

1. All international students who are enrolling at the American University for the first time or for a new program and are not citizens or permanent residents of the United States are required to obtain the signature of an international student adviser at the time of registration for courses. Students need to bring to the OIS their passport, I-94, I-20, or IAP-66 (if applicable), along with their class registration form, academic recommendation of the English Language Institute, or admission letter stating language waiver. Consult with OIS regarding special group registration.  
*Note:* Returning international students who are not registering at the American University for the first time or for a new program are not required to obtain an international student adviser's signature to register.
2. New international students, whether degree or non-degree, must take an English language proficiency test before they register. (See "English Language Requirement" above.)
3. International students may take courses in the university's off-campus program; however, they must complete their registration on campus.



4. All new nondegree international students should begin their registration in the University Programs Administration and Advising Center at least five working days before the end of registration. Failure to do so may cause the new nondegree international student to be registered during the period of late registration and therefore to be subject to the late registration fee. Students must present translated copies of their previous academic records in order to enroll.

## English Language Institute

International students wishing to enroll in the English Language Institute, either full time or part time, must have completed the equivalent of a U.S. high-school education (twelve years of schooling).

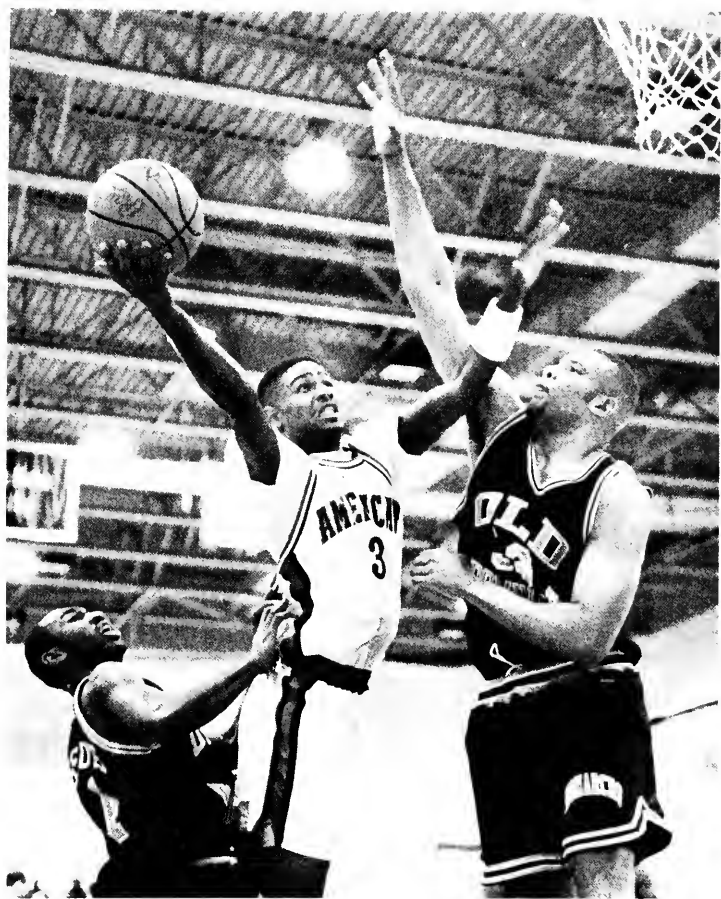
Students who are applying for permission to enroll in the English Language Institute for English only do not have to take the Test of English as a Foreign Language (TOEFL).

After filing an application and notarized and translated academic transcripts or proof of completion of high school, students who are accepted will be sent a formal letter of acceptance from the English Language Institute. A Certificate of Eligibility (Form I-20) for a nonimmigrant student visa will be sent with the letter of acceptance provided the student has appropriately completed the Verification of Financial Capability portion of the ELI application and submitted appropriate financial documents.

Admission to intensive English courses in the English Language Institute in no way implies eligibility for admission to any program or course of study in other divisions of the American University. (For more information, see the Special University Programs chapter in this catalog.)

Information and course dates will be mailed upon request by writing to the English Language Institute, The American University, Washington, DC 20016-8031, U.S.A., or by calling (202) 885-2147.





# Tuition, Expenses, and Financial Aid

## Tuition and Expenses

Undergraduate students who register for 12 to 17 credit hours are assessed tuition at the full-time rate. Undergraduate students who register for fewer than 12 credit hours are assessed tuition based on the number of credit hours taken. Undergraduate students who register for more than 17 credit hours are charged the full-time tuition rate with an additional charge for each semester hour over 17. Graduate and nondegree students are assessed tuition per credit hour.

The off-campus tuition rate differs from the rate for on-campus courses. Full-time undergraduate students, however, who register for courses both on and off campus are assessed tuition at the on-campus full-time rate.

Washington College of Law students are assessed tuition on the same basis as are undergraduate students. However, the Washington College of Law tuition rate differs from that of the rest of the university.

Given probable continuation of current economic conditions, as well as the need to continue to accelerate the academic development of the university, it is reasonable to expect that tuition and fee increases will be required for each year in the near future. The university will attempt, however, to limit tuition and fee increases to reasonable levels.

## Tuition

### Undergraduate Students

Full-time (12–17 credit hours)	\$7967
Part-time (per credit hour)	531

### Graduate Students

(per credit hour)	571
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### Graduate Business Programs

(For students admitted to the MBA program for the

1994–1995 academic year.)

Full-time MBA (per semester)	9000
Part-time MBA (per credit hour)	667

### Law Students

Full-time (12–17 credit hours)	9222
Part-time (per credit hour)	684

(For the purpose of determining full-time status, noncredit courses will be included in and equated with credit courses according to the number of scheduled meetings each week.)

### Nondegree Students

Undergraduate (per credit hour)	531
Graduate (per credit hour)	571

### Off-Campus Programs

Full-time (12–17 credit hours)	7229
Part-time (per credit hour)	482

Auditors pay the same charges as students enrolled for credit and are subject to all applicable special fees listed below.

Charges for institutes and other special courses may be found listed under their departments and schools in the *Schedule of Classes* published each academic term.

## Residence Hall and Meal Plan Charges

### On campus Residence Halls (per semester):

(Note: Except for Washington Semester programs, all housing agreements run for two semesters)

#### Anderson, Hughes, Leonard, Letts, and McDowell Halls

Single Occupancy	\$2442
Double Occupancy	1980
Triple Occupancy	1445

#### Capital, Congressional, and Federal Halls (Tenley

#### Campus)

Single Occupancy	\$2442
Single with bath	2854
Double Occupancy	1980
Triple Occupancy	1445

#### Centennial and Nebraska Halls

Single Occupancy	\$2854
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## 50 Tuition, Expenses, and Financial Aid

Double Occupancy . . . . .	1980
Residence Hall Association Fee (per semester) . . . . .	10
(Optional: waived only on submission of waiver form to the Office of Residential Life before the end of the first week of classes. Once paid, this fee is nonrefundable.)	

### Off-campus Graduate Student Apartments

#### Glover-Tunklaw Residence Hall

Units leased on an annual basis at the following monthly rates:	
One-Bedroom Unit (per month) . . . . .	650
Two-Bedroom Unit (per month) . . . . .	900

### Meal Plan Charges (per semester)

All meal plans start the first day of the semester.	
Carte Blanche . . . . .	\$1240
Carte Blanche Plus \$150 . . . . .	1315
14 Meals Plus \$255 . . . . .	1220
10 Meals Plus \$250 . . . . .	1165
10 Meals "Straight up" . . . . .	985
8 Meals Plus \$275 . . . . .	1105
8 Meals "Straight up" . . . . .	920

Resident freshmen are required to be on one of the above meal plans. If freshmen do not enroll in a meal plan in the first ten days of the semester (this includes weekends and holidays), an automatic enrollment in the 14 Plus plan will be billed to their accounts. Meal plan changes will not be made available at that time. Resident freshmen wishing to petition to change dining program may do so by filing with the Office of Auxiliary Services, Leonard Hall, lower level. Petition filing deadline is the first 10 days of the semester (this includes weekends and holidays).

85 Block Meals (not available to freshmen) . . . . .	545
45 Block Meals Plus \$220 . . . . .	
(not available to freshmen) . . . . .	545
Note: Plus portion of plan is to spend as cash in the retail dining facilities other than the Terrace dining room.	
19 Meal Plan (Tenley Campus only) . . . . .	1192
14 Meal Plan (Tenley Campus only) . . . . .	1140
10 Meal Plan (Tenley Campus only) . . . . .	1060

## Special Fees

These fees are nonrefundable. The charges listed below are not included in tuition and general fees.

Note: Special course and laboratory fees are listed in the *Schedule of Classes* published for each academic term and are also nonrefundable.

### Admissions

Undergraduate Application Fee . . . . .	\$45
Graduate Application Fee . . . . .	50
Law School Application Fee . . . . .	45
Undergraduate Readmission . . . . .	45
Graduate Readmission . . . . .	50
Admission Testing Fee (per test) . . . . .	5

### Graduation

Graduation Application Fee . . . . .	\$25
(No reapplication fee is charged.)	

### Health

Health Fee (per semester) . . . . .	\$45
(For full-time off-campus students.)	

Health Insurance (per year; subject to change) . . . . .	410
(For full-time degree, resident, and international students. The fee is assessed automatically and may be waived during the first three weeks of the term if the student possesses comparable private or group coverage.)	

### Parking (per year)

Resident Student . . . . .	\$405
Commuter Student . . . . .	200
Part-time Commuter Student . . . . .	85
(Undergraduate and law students: fewer than 12 credits; graduate students: fewer than 9 credits; proof of part-time enrollment must be provided.)	
Faculty/Staff Restricted . . . . .	345
Faculty/Staff General . . . . .	200
Faculty/Staff Part-time . . . . .	85
(Full-time students do not qualify for this permit.)	
Motorcycle . . . . .	50

### Registration

Alumni Audit Program Registration Fee . . . . .	\$75
Alumni Audit Late Registration Fee . . . . .	10
Faculty/Staff Registration Fee . . . . .	50
(For employees of the university or their spouses registering under the tuition remission benefit.)	
Late Registration Fee . . . . .	50
(Effective the first day of the term)	

### Sports Center

Full-Time Fee (per semester) . . . . .	\$50
Part-Time Fee (per semester) . . . . .	25

### Student Accounts

American Installment Plan . . . . .	
Program Fee (per year) . . . . .	\$50
Late Fee (per monthly payment) . . . . .	20
Deferred Payment Plan Fee (per semester) . . . . .	40
Late Payment . . . . .	50
(see "Late Payment and Financial Stops" below)	
Reinstatement Fee . . . . .	50
Returned Check Fee . . . . .	25
(For personal checks not honored by the bank.)	

### Student Confederation Fee (per semester)

Full-Time Students . . . . .	\$55
Part-Time Students . . . . .	10
(Mandatory for all undergraduate degree students.)	

### Student ID

Student Picture ID Card Replacement Fee . . . . .	85
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### Transcript

Official Transcripts Fee (per transcript) . . . . .	82
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## Graduate Student Fees

The following charges apply to graduate students only:

### Graduate Student Council

(per semester) . . . . .	\$20
(Mandatory for all graduate students, full-time and part-time.)	

### Maintaining Matriculation

(per semester) . . . . .	571
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### Comprehensive Examination Application

(per examination)	
Master's and Doctoral . . . . .	25
Additional Fee if in Absentia . . . . .	100

**Microfilming**

Master's Thesis or Case Study . . . . .	25
Doctoral Dissertation . . . . .	35
<b>Law School General Fee (per semester)</b>	
Full-Time Students . . . . .	120
Part-Time Students . . . . .	87
Summer . . . . .	20

**Note:** For estimated total yearly cost of attendance at the American University, see "Financial Aid" below.

**Continuing Studies Student Fees****Admissions**

APEL Admission Fee . . . . .	25
Community Studies Application Fee . . . . .	20

**APEL Portfolio Assessment Fee**

(paid when portfolio is circulated) . . . . .	250
<b>Fee for Posting Portfolio Credit on Academic Record</b>	
(per credit hour/ maximum of 30 credits) . . . . .	20

**Payment**

Students participating in advance registration must pay the balance due on or before the due date as indicated on the bill sent from the Office of Student Accounts.

Students participating in direct registration must pay the balance due on the day they register.

**The American Installment Plan**

The American Installment Plan (AIP) is available to all full-time students. This plan covers the academic year and requires ten monthly payments from June 1 through March 1. Call the Office of Student Accounts at (202) 885-3541 for more information.

**Deferred Payment Plan**

Registered students whose total bill, after deducting all forms of tuition assistance, exceeds \$2400 may elect the deferred payment plan. Under this plan, the student pays one-half the amount due (after deducting all forms of tuition assistance) by the initial due date and the remaining balance approximately seven weeks later. The amount due includes all charges, billed or unbilled, which have been incurred or will be incurred during the current semester.

The charge for the university deferred payment plan is \$40 each semester (not refundable).

**Late Payment and Financial Stops**

A late fee of \$50 may be assessed against a student's account for failure to meet the initial payment due date. A late fee of \$50 will be assessed for failure to meet the deferred payment due date.

In addition, failure to make payment when due will result in a financial "stop" being placed on the student's account. The financial stop will in turn result in a "hold" being placed on the student's academic records, including transcript and diploma, and may result also in denial of advance registration and use of the deferred payment plan or other credit privileges.

Financial stops may be removed following assessment and payment of a \$50 reinstatement fee. The university reserves the right to delay clearance until a personal check clears a financial institution.

A student who has once had a financial stop placed against his or her account may be denied future advance registration and deferred plan privileges even though the student has been reinstated on payment of the reinstatement fee. Repeated failure to make payments when due may result in severance of the student's relationship with the university.

Students who incur financial obligations in the parking and traffic office, library, health center, or athletic department may be subject to late payment fees and financial stop procedures.

**Employer or Agency Tuition Assistance**

A student requesting employer or agency billing arrangements must furnish the Office of Student Accounts with a valid contract or purchase order before the first day of classes. A contract or purchase order must contain the following information: (1) student name and social security number, (2) term of attendance, (3) specific costs (and dollar amounts) to be paid by the sponsor (tuition, books, supplies, fees), (4) sponsor's billing address, and (5) contract or purchase order number or accounting appropriation, if applicable. Documentation submitted in lieu of a valid purchase order will not relieve a student of financial responsibility.

In case of partial assistance, the student is required to pay the balance of his or her tuition costs at the time of registration in order to be considered registered. A student portion which qualifies for the university deferred payment plan is to be paid by the deferred due date. Failure to comply will result in the assessment of a late payment fee. (See "Late Payment and Financial Stops" above.)

A student entitled to Campus Store credit may obtain a book charge form from the Office of Student Accounts. Purchases are permitted through the end of the add-drop period.

Failure to submit vouchers in a timely manner may result in the assessment of late fees. A student is responsible for payment of any billed amounts which have been disallowed by his or her sponsor.

**University Employee Tuition Benefits**

Only full-time permanent faculty or staff employees of the American University are eligible for tuition benefits. There is a nonrefundable \$50 registration fee each semester.

Applications for faculty, staff, and spouse benefits are available at the Office of Human Resource Development. The completed application must be approved by the Office of Human Resource Development and submitted to the Office of Student Accounts at the time of registration.

Late registration fees are not applicable to faculty and staff using employee tuition benefits.

**Refunds and Cancellation of Charges****Tuition**

Students who reduce their course load or who completely withdraw during the first four weeks of the semester must complete the appropriate forms available in the dean's offices and the Office of the Registrar, and submit

## 52 Tuition, Expenses, and Financial Aid

the completed forms to the Office of the Registrar. The amount of tuition to be canceled will be calculated as of the date on which the withdrawal forms are received in the Office of the Registrar and in accordance with the tuition cancellation schedule in the *Schedule of Classes*. If the withdrawal results in a refund, the request for such refund should be made in the Office of Student Accounts.

Complete withdrawal from the university during or before the first week of classes will result in full cancellation of tuition charges provided the withdrawal form is received in the Office of the Registrar and dated no later than the first week of classes. A full cancellation of tuition will also pertain to a course dropped during the first week of classes.

Withdrawal from the university or course drops that result in course-load reduction during the first four weeks of classes are subject to the percentage cancellation schedule published in the *Schedule of Classes* for the semester.

Discontinuing attendance in class or notifying an instructor does not constitute an official withdrawal. Students who do not officially withdraw (by submitting to the Office of the Registrar either a completed Course Registration Change Form or a Withdrawal from the University Form) during the cancellation period will be responsible for payment of the full amount of the applicable tuition and fees.

Tuition and program fee refund policies and deadlines for study abroad programs may differ because of the unique circumstances of each program and location. Consult the World Capitals Programs Office at (202) 895-4900 for specific guidelines.

### Room

Requests for cancellation of room charges must be initiated by the student in the Office of Residential Life and Housing Management. Deadline to withdraw from university housing without charge is August 1. The student must then request any applicable refund through the Office of Student Accounts. The percentage cancellation schedule based on date of withdrawal is published in the *Schedule of Classes* for the semester.

### Meal Plan

Students will be permitted to decrease or drop their meal plan only during the first ten days of each semester (this includes weekends and holidays). Requests for meal plan cancellations must be initiated by the student in the Dining Services Office. Students then request any applicable refund through the Office of Student Accounts.

### Medical Withdrawal Policy

No special waiver or refund of tuition and fees is to be made when a student discontinues attending class due to medical reasons.

When a student is hospitalized on an emergency basis, and that in turn prohibits the student from formally withdrawing from class, then the Registrar is authorized to process a retroactive withdrawal based on the last date that the student attended class. The student must present evidence of his or her hospitalization and the date of last attendance in class should be verified by the appropriate academic unit(s). Providing that the retroactive withdrawal date falls within the allowable refund period, an adjust-

ment to the student's account is permitted as authorized by published regulations.

### Tuition Refund Insurance

Insurance coverage which would supplement the university's published refund policy is available to full-time students through the Tuition Refund Plan (TRP), an elective insurance plan sponsored by A.W.G. Dewar, Inc. Under this plan, students who withdraw from classes at any time during the semester because of a personal medical illness or accident will receive a full tuition refund; students who withdraw due to a mental/nervous disorder will receive a 60% tuition refund. Housing charges are refunded on a prorated basis. The plan year is comprised of both fall and spring semesters of an academic year. Enrollment in the plan must occur prior to the first day of fall semester classes. For more information about the Tuition Refund Plan, contact the Student Health Insurance Coordinator, The Student Health Center, Nebraska Hall, (202) 885-3384.

## Financial Aid

All new or readmitted students must follow these steps to receive priority consideration for financial aid:

1. Submit admissions applications and all necessary supporting documents to the Office of Admissions by the appropriate deadlines.
2. Undergraduate students complete a current Free Application for Federal Student Aid (FAFSA) and the Financial Aid Form (FAF) as soon as possible after January 1. The FAFSA and FAF should be received by the federal processing centers by March 1 in order to meet the financial aid priority deadline. Students request that their information be sent to The American University. Applications received after March 1 will be reviewed only after on-time applications and as long as funds remain available.  
Graduate students complete only a FAFSA for federal aid and apply for admission by February 1 to be considered for fellowships and assistantships.  
New students should not wait to be admitted before filing the FAFSA and FAF. A financial aid application has no bearing on a student's admission application. However, a student will not receive final consideration for aid until he or she is admitted to a degree program.

All transfer, graduate, and law students must provide a financial aid transcript from all postsecondary schools attended.

### Undergraduate

The American University has an extensive program of scholarships, loans, and grants. (See "American University Programs" below.)

The federal programs in which the American University participates include: Federal Perkins Loans, Federal Supplemental Educational Opportunity Grants (SEOG), Federal Work-Study (FWS), Federal Pell Grants, Federal Direct Stafford Loans, and Federal Direct Parent Loans for Undergraduate Students (PLUS). (For more information, see "Filing Instructions" below.)

## Graduate

College-based federal programs include: Federal Perkins Loans, Federal Work-Study (FWS), and the Federal Direct Stafford Loan Program. Graduate Honor Awards and graduate fellowships and assistantships are available. Information concerning application procedures is given in "Filing Instructions" below.

Students in the Washington College of Law should use the Free Application for Federal Student Aid (FAFSA) to apply for Federal Perkins Loans and Federal Work-Study and the Graduate and Professional Student Financial Aid Service (GAPSFAS) form for Washington College of Law financial aid programs. The law school recommends that students file the GAPSFAS by February 1, 1994.

## Filing Instructions

1. Incoming students must complete the American University Application for Admission. A student will not receive final consideration for aid until he or she is admitted to a degree program.
2. Students will be considered for all programs for which they are eligible. To receive consideration for federal and university aid, incoming and continuing undergraduate students should file a Free Application for Federal Student Aid (FAFSA) and the Financial Aid Form (FAF) with the processing center indicated on the form. Students who want to apply for federal funds only should only complete the FAFSA. Incoming and continuing graduate and law students should file a FAFSA only. Aid recipients must reapply each academic year to be considered for further funds. Be sure that the FAFSA and FAF are for the same academic year for which the application for aid is made. If the applicant is requesting aid for the 1994-1995 academic year, the 1994-1995 forms must be submitted. The form is available from most secondary schools and colleges and from the American University, Office of Financial Aid.  
*Note to graduate students:* The application deadline for fellowship and assistantship consideration is February 1. The March 1 deadline for the FAFSA is for federal aid only.
3. Submit financial aid transcripts (if appropriate). All incoming transfer, graduate, and law school aid applicants must submit a financial aid transcript from all institutions previously attended. Transcript forms are available in the Office of Financial Aid. Incoming applicants must request each institution to send a transcript to the American University, Office of Financial Aid. Federal funds may not be disbursed to students until such transcripts are received.
4. Complete and submit any other documents as requested by the Office of Financial Aid.

**Financial Need**

The student's financial need is defined as the difference between the cost of attendance and a reasonable expectation of assistance from the family.

All financial aid is based on the assumption that students and their parents will contribute a reasonable amount to meet educational expenses. Students and par-

ents are encouraged to inform the Office of Financial Aid should major changes in their financial situations occur.

## Estimated Cost of Attendance

### Undergraduate:

Tuition . . . . .	\$15,934
Student Fee . . . . .	210
Books and Supplies . . . . .	450
Room and Board . . . . .	6440*
Personal and Travel Expenses . . . . .	1300
Total . . . . .	24,334

### Graduate:

Tuition (9 credit hours per semester) . . . . .	\$10,278**
Student Fee . . . . .	140
Books and Supplies . . . . .	728
Room and Board . . . . .	6440*
Personal and Travel Expenses . . . . .	2943
Total . . . . .	20,529

\* For students living at home, or off-campus but not with parents, adjustments to these room and board averages will be necessary.

\*\* M.B.A. program tuition is \$18,000 per year. Total estimated cost of attendance for this program is \$28,251.

## Notification

The Office of Financial Aid carefully reviews the student's financial situation. If the student is eligible for assistance and monies are available, an offer of award is made. Often the award is a "package" of assistance in the form of grants, loans, and work.

The Office of Financial Aid notifies applicants who meet the priority deadline as soon as possible after receipt of all application material. New students should note that they must be admitted to a degree program before any action will be taken on their financial aid applications.

### Notification Dates:

Early Decision Freshmen . . . . .	January 2
Regular Decision Freshmen . . . . .	March 30
Transfer . . . . .	April 30
Continuing Undergraduates . . . . .	mid-June
New Graduate and Law . . . . .	May 1
Continuing Graduate and Law . . . . .	mid-June

## Satisfactory Academic Progress

All aid recipients in all programs must maintain satisfactory academic progress toward their degrees in order to remain eligible for consideration. This progress is defined both qualitatively and quantitatively. At the least, undergraduates are expected to complete 24 credit hours each year with a cumulative grade point average of 2.00; graduate students must complete 18 credit hours with a grade point average of 3.00. Certain aid programs carry additional restrictions to which the Office of Financial Aid must adhere. For more specific information, students should consult the Office of Financial Aid.

## Refund Policy

Refunds of student aid to an eligible student are made through the university's Office of Student Accounts. Students with a credit balance must apply for a refund by completing the form "Student Refund Request" available in the Office of Student Accounts. Eligibility for a refund

## 54 Tuition, Expenses, and Financial Aid

depends on the student recipient's enrollment status, cost of education, and date of attendance. Changes in any of these factors, such as dropping courses or withdrawal from the university, could result in the reduction of the student's aid package, thereby removing a potential credit balance. A student who withdraws from the university will receive only what balance remains, if any, after costs are calculated and aid is restored to the aid accounts. Also, a student who receives a refund based wholly or partly on financial aid and later changes enrollment status may be required to return all or part of the refund to the university.

### Financial Aid Transcripts

Students may obtain transcripts of their financial aid records from the Office of Financial Aid. There is no charge.

## Federal Programs

To receive financial aid through a federal program, a student must be a United States citizen or eligible non-citizen in a degree program.

**The Federal Work-Study Program (FWS):** This program provides the opportunity to work part-time on campus. Students must demonstrate financial need and be enrolled at least half-time. Students who have been awarded FWS may utilize these funds in the Cooperative Education Program. (For more information, see "Cooperative Education Program" in the Special Opportunities chapter.)

## Federal Loans

**The Federal Perkins Loan Program:** This program provides low-interest loans for degree-seeking students who demonstrate financial need.

An undergraduate student may borrow up to \$3,000 per year with a maximum aggregate total of \$15,000, while a graduate student may borrow up to \$5,000 per year with a maximum aggregate total of \$30,000 (includes undergraduate loans).

Repayment begins six to nine months after graduation or the end of enrollment on at least a half-time basis. The loan must be repaid within ten years. During the repayment period, 5% interest on the unpaid balance of the principal will be charged. Provisions for deferring or canceling payment are available in some situations. Students should consult the Office of Financial Aid for further information.

**Federal Direct Stafford Loan Program:** A Federal Direct Stafford Loan is a low-interest loan available from the federal government. These loans are awarded and disbursed by the American University, Office of Financial Aid. An undergraduate student may borrow up to \$2,625 for the first year of study; \$3,500 for the second year; and \$5,500 per academic year after completing two years of undergraduate study. Independent undergraduate students in the first two years of study may borrow up to \$4,000 in addition to the amounts listed above, while third and fourth year students may borrow up to an additional \$5,000. Graduate students may borrow up to \$18,500 each academic year. The total aggregate allowed for undergraduate and graduate is \$138,500.

The federal government will pay the interest on all or a portion of the loan while the student is in school, depend-

ing on the amount borrowed and whether or not the student qualifies for an interest subsidy.

Repayment of the loan begins six months after a borrower drops to less than half-time status, and a borrower has up to ten years to repay.

**Federal Direct Parent Loans for Undergraduate Students (PLUS):** The Federal PLUS program was designed to provide parents with additional funds to assist them in meeting educational expenses. These loans, which are not based on need, are available from the federal government through the American University.

Parents of dependent undergraduate student may borrow up to the cost of attendance, less any financial aid the student is receiving.

The interest rate on the Federal PLUS program is variable. Repayment generally begins within sixty days of the loan's disbursement and may be extended over a five- to ten-year period.

## Federal Grants

**Federal Pell Grant Program:** This program provides grant aid to eligible students enrolled at least half-time in degree programs.

Applicants will receive a Student Aid Report (SAR) from the Department of Education and must submit the SAR and other required documents to the university. The amount of a Federal Pell Grant award will be based on the Department of Education's determination of eligibility.

**Federal Supplemental Educational Opportunity Grants (SEOG):** Federal funds are available through the university to undergraduate students with exceptional financial need.

## State Scholarship and Grant Programs

Many states administer grant and scholarship programs which residents may apply for and receive while attending the American University. Students should check with local guidance counselors and state grant agencies regarding up-to-date application procedures and eligibility factors.

## American University Programs

### Restricted University Loans

Loans are available to needy students at the American University on a short- and long-term basis. Funds are provided either by private endowments to the university or by the university itself. The qualifications for each of these programs vary according to the stipulations that the donors have made for the individual accounts. Funds are extremely limited and are considered a resource of last resort.

**Alumni Association Loan Fund:** The American University Alumni Association has established a loan fund for American University alumni who are pursuing part-time graduate study. The loan must be repaid with 2% interest.

**Frank W. Ballou and Adeline J. Ballou Memorial Loan Fund:** This loan fund was established in 1985 by Mrs. Adeline J. Ballou of Washington, D.C. Its purpose is to



assist needy and deserving students from the District of Columbia who are enrolled full-time in a degree program. Loan amounts vary.

**Morris and Guendolyn Cafritz Foundation for Middle Income Students Loan Fund:** This revolving loan fund was established by a grant from the Cafritz Foundation of Washington, D.C. for middle income students who, without this assistance, would not otherwise be able to continue their education. Interest accrues at the rate of 7% per annum.

**Class of 1932 and Class of 1961 Loan Fund:** These funds are lent to worthy and needy full-time undergraduate students. Interest accrues at 4% per annum.

**Sinclair B. Dell Loan Fund:** A memorial loan fund was established to honor Dr. Sinclair Dell, a Washington podiatrist, who died of cancer in 1975. Repayment must be made within one year of the award at 2% interest.

**General University Loan Fund:** This loan is designed for both graduate and undergraduate students with no outstanding debts to the university. The interest is 4% per annum.

**Rose Mae Howard Memorial Loan Fund:** This fund was established in 1975 by the Rose Mae Howard estate to assist students who are in need of financial aid to complete their education. This loan is awarded to full-time juniors and seniors and bears a 9% interest rate upon repayment.

**The Interfraternity Council Orphan Fund:** This loan fund was provided by the American University Interfraternity Council beginning in 1961. Recipients must be male orphans under twenty-one years of age. There is no interest charge on repayment.

**Willmet M. Kempton Loan Fund:** These loans are awarded to full-time graduate or undergraduate students in the School of Communication. The interest rate is 4% per annum.

**Kogod College of Business Administration Student Loan Fund:** The loan fund was established to help part-time or full-time undergraduate and graduate students who are enrolled and are in good standing in the Kogod College of Business Administration. Terms of the loan include a 5% rate of interest which will accrue on receipt of the loan. Repayment begins six months after graduation. This loan may be applied for in the Office of Financial Aid.

**Ida Letts Educational Loan Fund:** This fund helps young men whose financial condition makes support necessary while enrolled as full-time undergraduates. The loan cannot be granted to students during their first semester. The interest rate is 2% per annum while the recipient is enrolled full-time and 4% per annum after enrollment at the American University ceases.

**Long Loan Fund:** This loan was designed for the daughters of United Methodist ministers in the College of Arts and Sciences. The interest rate is 4% per annum.

**Anna Mary Mann Memorial Loan Fund:** These funds are restricted to women in the Kogod College of Business Administration and the School of International Service. The interest rate is 4% per annum.

**William Hill McKensie Loan Fund:** This fund was established in September 1968 in memory of William Hill McKensie IV, who died in March 1968 and was awarded a Bachelor of Arts degree posthumously in June 1968. It provides emergency assistance to full-time, married se-

niors at the American University. Four percent interest accrues from the date the loan is made.

**Maurice Minnick Loan Fund:** These funds are designed to help married seniors meet educational costs. Loans are to be repaid after graduation without interest.

**Shirley E. Minus Loan Fund:** This fund is designed to aid undergraduate students in good standing at the university. The fund is especially suited to students who may not qualify for other financial aid. Three percent annual interest will accrue on the unpaid balance beginning nine months after graduation or separation from the American University.

**Thomas Moore Emergency Loan Fund:** This fund was established in January 1970 by Theodore and Lillian Moore as a memorial to their son Thomas, an American University sociology student killed in an automobile accident in 1969. Students may borrow up to \$50 to meet financial emergencies.

**Morris Morgenstern Loan Fund:** This loan was established in 1972 by the Morris Morgenstern Foundation of Long Island, New York. It is issued for no longer than one year to students in need of emergency assistance. The interest rate after the due date is 4% per annum.

**Julia Olson Loan Fund:** All students in need of temporary emergency assistance qualify for this loan provided they are in good academic standing. This loan is interest free.

**Stanley Posner Student Emergency Loan Fund:** A short-term, no-interest loan fund to assist students in emergency situations. Loans are to be repaid in thirty days and will not exceed \$50.

**Real Estate Alumni Loan Fund:** Established to assist needy students enrolled as real estate or finance majors or both in the Kogod College of Business Administration. First preference is given to real estate majors and to junior, senior, and graduate students. Loan amounts vary but may not exceed \$2,500 each academic year. Current interest is at 9%. Recipients are selected by a loan committee.

**Roland Rice Loan Fund:** Borrowers of this loan must be students who are not qualified to receive aid from other student aid sources available at the university. Interest accrues at 4% per annum. The loan must be repaid within two years after graduation.

**Residence Hall Association Emergency Loan Fund:** Established in 1965 by the Women Residents Association to assist women living in the residence halls. The fund was altered in 1978 to include men residing in campus housing. This is a short-term loan with a maximum award of \$50.

**Bertha Roberts Loan Fund:** Made possible by a bequest from the Bertha Roberts estate in 1973, the fund provides interest-free loans to young men and women preparing for Christian ministry or missionary work, or other religious positions. Interest accrues at 5% on the unpaid balance if a default occurs; otherwise the loan is interest free.

**Arletta Skinner Rudd Loan Fund:** Made possible by a bequest from Arletta Skinner Rudd's estate in 1986, this fund provides financial assistance to needy full-time undergraduate students.

**William M. and Rebecca Sachs Loan Fund:** This emergency loan fund was created by the Sachs family in 1962 for needy full- or part-time undergraduates or graduates who have completed at least one semester in the Kogod

College of Business Administration. The interest rate is 5% per annum.

**Student Confederation Loan Fund:** This loan fund was established in 1975 to aid full-time undergraduates other than freshmen. The interest rate is 3%.

**United States Steel Foundation Loan Fund:** This fund aids full-time graduate students enrolled in the Kogod College of Business Administration. Students must be recommended by the dean. Interest accrues at 3% per annum.

**Washington College of Law Dean's Loan Fund:** This fund aids law students and is administered by the Washington College of Law. Interest accrues at 4% per annum. Students must apply directly to the Washington College of Law.

**Washington College of Law Alumni Loan Fund:** This loan is funded by alumni contributions and is usually available in the amount of \$1,000 at 7% per annum. Loan repayments begin six months after graduation. This loan is limited to seniors and other students who are in serious financial need.

**Weinberg Student Loan Fund:** Mr. and Mrs. J. A. Weinberg, Jr. established this loan fund in 1968 to assist students in the business school who have successfully completed one full year of study. Interest accrues at 4% beginning when the loan is made.

## Grants

**Athletic Grants:** The Department of Athletics and Recreation makes partial- to full-tuition grants based on athletic promise and ability. Students interested in being considered for these renewable grants should call or write the coach of the sport in which they excel.

**Residence Hall Advisers:** Students selected to serve as hall advisers receive partial tuition remission, a single room, and a monthly stipend for nine months. Interested students should call or write the Office of Residential Life in late fall to begin the application process. Selection is made in the spring for placement the following academic year. Available only to juniors, seniors, and graduate students.

**University Grant Program:** Full-time undergraduate degree students who demonstrate a need for assistance may apply. Amount is based on need. The maximum annual grant is one-half tuition. Requires filing of the Free Application for Federal Student Aid and the Financial Aid Form. Awards made as long as funds are available.

## Tuition Exchange

The American University is one of more than 160 colleges and universities that participate in the Tuition Exchange Program for faculty and staff members. Students whose parents are employed by one of the participating institutions may be eligible for a Tuition Exchange Scholarship. Further information may be obtained from the Tuition Exchange Officer of the participating college or by writing the Office of Human Resource Development at the American University.

**Tuition Remission for Faculty and Staff Members:** Full-time faculty and staff members may register without payment of tuition for up to six credit hours during any semester of the academic year for a total of 6 free courses each year. A nonrefundable processing fee of \$50 for each student is assessed each term.

## Undergraduate University Scholarships

**Honor Scholarships:** The Office of Financial Aid selects freshmen for Honor Scholarships of varying amounts. Selection is based solely on merit, although additional aid based on financial need may be offered. Students who meet the established criteria are notified shortly after admission. These tuition awards are renewable for a total of eight semesters provided the student makes satisfactory progress toward the degree (measured both through the cumulative grade point average and the completion of 15 credit hours each semester, 30 credit hours each academic year).

**Frederick Douglass Scholarships:** Students who are full-time undergraduates and U.S. citizens or permanent residents are eligible for a Frederick Douglass Scholarship. First preference is given to graduates of Washington D.C. metropolitan area high schools, then to graduates of other high schools in the nation. Academic achievement and financial need must be demonstrated. The awards provide partial tuition and are based on financial need. (Each year a limited number of awards exclusive of financial need are made to outstanding applicants.) Incoming students must complete an application for admission to a degree program at the university by February 1. A Free Application for Federal Student Aid and a supplemental financial aid form must also be received. For more detailed information students may call or write the Office of Multicultural Affairs at (202) 885-1270.

**American University Merit Scholarships:** The American University sponsors a number of tuition merit scholarships under the National Merit Scholarship Corporation's Merit Scholarship Program. National Merit finalists who indicate to the National Merit Scholarship Corporation that the American University is their first choice university are offered the scholarship. The awards are renewable and amounts vary. Finalists in the National Achievement Program for Outstanding Negro Students and in the National Hispanic Scholarship Program are also considered for a number of merit awards based on academic achievement.

## Restricted Scholarships

The university has a limited number of scholarships that are funded either annually or through endowment by gifts from private donors. Applicants for financial aid are routinely reviewed by the Financial Aid Office for eligibility for these scholarships. No separate application is required.

Normally, recipients must demonstrate financial need, maintain a cumulative grade point average of 3.00 and meet specific donor criteria. All restricted scholarships are administered by the Office of Financial Aid unless otherwise noted.

**Ernest M. Aiken Scholarship:** To assist international students the Ernest M. Aiken Scholarship was established in 1961 by Mrs. Herminia Aiken in memory of her husband. Priority is given to currently enrolled candidates in degree status and in good academic standing. Applicants should write to: Director, International-Intercultural Student Services, Butler Pavilion 408, The American University, Washington, DC 20016-8041.

**Walter and Sarah Alexander Scholarship:** This scholarship was established in 1927 by the children of Walter and Sarah Alexander. Recipients must be residents of Wisconsin.

**Hurst R. and Marian P. Anderson Scholarship Fund:** This scholarship was funded in 1967 by the Andersons to aid needy students from the Washington, D.C. area.

**Judith D. and D.F. Antonelli, Jr. Scholarship:** Established in 1986 to provide funds to exceptional and needy students.

**Baer Memorial Scholarship:** This fund was established in 1937 by Emma Baer to aid needy students from Pennsylvania.

**Esther W. Ballou Memorial Scholarship:** This scholarship is funded by alumni and friends of Esther Ballou, a composer and teacher at the American University. It provides funds for music majors.

**Bawael Memorial Scholarship:** This fund was established in 1982 through a grant from the estate of Helen Bawael for students who demonstrate academic excellence.

**William Kermit Barclift Scholarship:** This scholarship was established in 1990 by Mr. and Mrs. Kermit T. Barclift in memory of their son Kermit (B.A., CAS '88; M.A., CAS '69), to fund a freshman studying in the School of Communication.

**John and Mabel Becker Scholarship:** This scholarship is awarded to a male student with an excellent academic record.

**Dorothy and Jack Bender Scholarship:** This scholarship was endowed in 1978 by Morton Bender, in memory of his parents. The award is available to a full-time freshman who shows financial need and academic achievement.

**Lucius and Grace Bennett Scholarship:** This scholarship was established in 1944 by the estate of Grace Bennett to assist a male student from Logan County, Ohio.

**Leo M. Bernstein and David I. Estrin Scholarship:** This fund was established by Wilma and Stuart Bernstein in honor of their fathers. Students in the Kogod College of Business Administration are eligible.

**Stanley Bobb Scholarship:** This scholarship was established in 1989 to aid freshmen from the D.C. area studying in the Kogod College of Business Administration.

**John Bowden Memorial Scholarship:** Awarded to students pursuing the field of photography.

**Borden Parker Boune Scholarship:** This fund was provided by the estate of Ida C. Morrison for students in the philosophy department.

**Barnee Breeskin Scholarship:** This fund was established in 1991 to provide scholarships for students in the performing arts.

**Joseph A. Britton Scholarship:** The Britton Scholarship was established in 1982 by the family of Joseph Britton, who graduated in 1938 from the College of Arts and Sciences. The recipient of this award must exhibit excellence in academics as well as athletics.

**L.E. and L.J. Brown Scholarship:** Funded in 1947 by the estate of Lucy J. Brown to help students preparing for the ministry.

**Mary Louise Brown Scholarship:** This scholarship was established by the estate of Kathryn G. Heath (B.A., CAS '31; Ph.D., SGPA '51) in 1989. It provides funding for undergraduate or graduate female students pursuing a professional or paraprofessional career.

**Robert A. Bunnell Scholarship:** Established in 1992 to aid graduate students in journalism/public affairs.

**Abbey Joel Butler Scholarship:** This scholarship is made available by Mr. Abbey Joel Butler, president of C.B. Equities. Awards are made annually to a Kogod College of Business Administration freshman who demonstrates outstanding academic merit and financial need. Priority is given to students from the New York City metropolitan area.

**C&P Telephone Scholarship:** The C&P scholarship was established as an annual gift fund in 1978 to assist a high school graduate and resident of the District of Columbia who is enrolled full-time and has financial need.

**Laura Belle Campbell Scholarship:** This award was funded in 1955 by the estate of Laura Belle Campbell to aid students preparing for the ministry.

**Allan Carney Memorial Scholarship in Fine Arts:** In 1991, this scholarship was established by Magenta Carney Yglesias (B.A., CAS '79) in memory of her father for students in the Department of Fine Arts who exhibit financial need and academic excellence.

**Central High School Alumni Endowed Scholarship:** This scholarship was established in 1988 for undergraduate students. It is supported by the alumni of the Central High School of Washington, D.C. to "...keep (the) name and spirit alive for years to come and (to) help some worthy students to further their education."

**James Edward Miller Chapman Scholarship:** This \$1,000 scholarship is available annually to an undergraduate student who is a resident of the District of Columbia and who is majoring in business or economics. This scholarship was established by the Chapman Education Foundation in 1984.

**Grace L. Chavis-Butler Scholarship:** Established in 1990 to support undergraduate scholarships for black and minority students.

**Benson T. Chertok Scholarship:** This fund is awarded to an outstanding American University science student in honor of Benson T. Chertok for his work in nuclear physics.

**George C. and Louise E. Clark Scholarship:** George C. Clark established this scholarship in 1959 for outstanding students with financial need.

**The Cochran Memorial Fund:** This fund was established in 1958 by the estate of Mary E. Cochran to aid students preparing for the ministry.

**Comiteau Family Scholarship:** Awarded to academically outstanding needy freshman from the New York City metropolitan area. Preference is given to students involved in community service during high school. This scholarship was established in 1990 by Joel Comiteau.

**Wade Cooper Scholarship:** The estate of Wade Cooper provides funds to qualified students with financial need.

**Cora and John H. Davis Foundation Scholarship:** The Davis Foundation assists needy students. These scholarships were established in 1983.

**Joseph Dawson Scholarship:** Funded in 1955 by the estate of Margaret Y. Dawson, this scholarship assists children of ministers of the Baltimore Conference of the Methodist Church.

**Charles H. and Iva N. Dean Scholarship:** Started in 1947 by the estate of Iva N. Dean, this scholarship is designated to assist preministerial students.

**Rev. Charles and Dora DeLong Scholarship:** This award was established in honor of Rev. and Mrs. DeLong

by Mr. and Mrs. J. Dennett Guthrie to aid qualified students enrolled in the School of International Service.

**Nancy Devor Scholarship:** Awarded to students enrolled in the School of Public Affairs, this scholarship is funded by a 1910 endowment from the estate of Nancy Barnes Devor.

**The 50th Reunion Scholarship:** This scholarship is funded by members of the class of 1939. It provides funds to students who have demonstrated academic excellence.

**Keith Fleeer Scholarships in Communication and Public Affairs:** Three scholarships were established by Mr. Keith Fleeer (B.A., SGPA '64, J.D., '67) in 1993. Two of the scholarships are awarded in the School of Communication and a third is awarded in the School of Public Affairs. Priority is given to undergraduate students with junior status in good academic standing who have demonstrated outstanding merit and need. Preference is given to minority students in the School of Public Affairs.

**Michael Forman Scholarship:** This scholarship was established in 1984 to aid undergraduate students majoring in communication, visual media, literature, or cinema studies.

**Hymen Goldman Scholarship Fund:** This fund was established in 1968 by the Aaron and Cecile Goldman Foundation to award deserving and needy students from the Washington metropolitan area.

**Everett and Marian Gordon Scholarships:** This scholarship fund was established in 1976 by Everett and Marian Gordon to assist Jewish Studies majors.

**Sylvia and Harold Greenberg Endowed Scholarship:** Established in 1990. The income from the fund is used to support an undergraduate student in the performing arts.

**Arabella Griffin Scholarship:** This endowed fund was established in 1920 by the Rev. and Mrs. Charles Griffin for outstanding students from any college or school in the university.

**Ernest S. Griffith Scholarship:** This scholarship was established in 1965 to aid students enrolled in the School of International Service.

**Annie G. Hall Scholarship:** Awarded to students preparing for the ministry, this scholarship is financed through a fund established in 1942 by Annie G. Hall.

**The C.E. Hammond Scholarship Fund:** Established in 1927 by the estate of C.E. Hammond, this fund assists students preparing for the ministry.

**Milton Harris Scholarships:** The Office of Financial Aid in cooperation with the Department of Chemistry selects a varying number of deserving undergraduate students annually to receive the Milton Harris Scholarship.

**The E. Haskell Scholarship:** The estate of E. Haskell provides funds to aid preministerial students.

**William Randolph Hearst Minority Scholarship:** The Hearst Foundation established an endowment fund in 1983 to support a scholarship program with preference for minority undergraduates. Recipients are chosen based on academic achievement, motivation, and financial need.

**Hechinger Foundation Scholarship:** In 1983 the Hechinger Foundation established an endowed scholarship fund, the income of which is awarded on an annual basis. First preference is given to black undergraduate students from the District of Columbia who are majoring in business.

**David Hertz Memorial Scholarship:** An endowed fund established by the friends and family of David Hertz. The interest from this fund provides an annual award to a student who demonstrates academic excellence.

**The Helene M. Herzburn Art Scholarship Fund:** Dr. Philip Herzburn established an endowed scholarship fund in 1984 in memory of his wife Helene, a former member of the university's art faculty. The scholarship is awarded to undergraduate students with financial need majoring in art. Selections are made in cooperation with the Department of Art.

**Ludwig Maximilian Homberger Scholarship:** This scholarship was funded in 1982 by the estate of Elizabeth B. Homberger in memory of her husband, a former American University professor. It was established to assist needy German exchange students studying at the American University.

**Bruce Hughes Scholarship:** This scholarship is awarded to outstanding students through a 1917 gift from the estate of the Rev. Bruce Hughes.

**Hyman Scholarship:** Established in 1956 by the estate of Emma Hyman, this scholarship aids students preparing for the ministry.

**Catherine Letts Jones Scholarship:** Established in 1964 by Mrs. Jones, this scholarship assists women who are native-born Americans.

**Jack Jurey Memorial Scholarship:** This fund was begun in 1970 by Mrs. Jack Jurey. The recipient must be a junior, senior, or graduate student pursuing a career in broadcast journalism. Selections are made through the School of Communication.

**Adam and Samuel Karsch Memorial Scholarships:** Established in 1991, each of these scholarships funded by Mr. and Mrs. Mark Karsch assists a business student from the New York City area who is academically qualified.

**Adnan Khashoggi Scholarship:** The Adnan Khashoggi Scholarship was established in 1983 by Adnan M. Khashoggi. A scholarship is awarded annually to an outstanding undergraduate who demonstrates substantial financial need.

**Kovler Family Scholarship Fund:** This scholarship was established by the Blum-Kovler Foundation in 1993 for undergraduate students majoring in finance in the Kogod College of Business Administration who exhibit financial need and academic excellence.

**Hugh and Maggie Legge Scholarship:** Funded by Hugh Legge in 1937, this scholarship aids students from Kent Island in Queen Anne's County, Maryland.

**Catherine Letts Scholarship:** Provides funds for legal residents of Iowa.

**Minnie Letts Scholarship:** Provides funds for an outstanding resident of Kansas.

**Mary and Daniel Loughran Scholarship:** This scholarship is awarded to four students from each class who have demonstrated academic excellence, leadership, and service to the university community. The fund was established in 1976 by a grant from the Mary and Daniel Loughran Foundation.

**John H. and Nannie C. Lucas Scholarship:** Established in 1928 by Nannie Lucas, this scholarship aids residents of Missouri.

**Frank J. Luchs Memorial Scholarship:** This scholarship is awarded by the Kogod College of Business Admin-

istration to students pursuing a career in real estate or business administration.

**Ruth McFeeter Scholarship Fund:** This memorial scholarship fund was established in 1994 by the friends of the late Ruth McFeeter (Faculty Emerita). This emergency scholarship is awarded to students exhibiting extreme financial need.

**Charles Merrill Scholarship:** Established in 1973 to provide financial assistance to needy undergraduates in the Kogod College of Business Administration.

**Samuel J. Moritz Scholarship:** Established in 1961 by the estate of Samuel Moritz, this fund assists students in the School of International Service.

**National Organization of Black Law Enforcement Executives (NOBLE) Scholarship:** This scholarship was established by NOBLE in 1992 for a minority student studying law and justice who plans to pursue a career in law enforcement.

**Charlotte W. Newcombe Foundation Scholarship:** The Charlotte W. Newcombe Foundation made its first annual gift to the American University in 1981 to fund scholarships for mature second-career women students attending full- or part-time. Students should have completed half the credits necessary for their bachelor's degree before applying for the fund.

**Charles A. Norwood Memorial Scholarship:** Aids students who are legal residents of Maryland.

**Opdyke Memorial Scholarship:** The Opdyke Memorial Scholarship was established in 1931 through the estate of Dorothy Opdyke. Awards are made to women preparing for foreign missionary service.

**Miriam Ottenberg Memorial Scholarship Fund:** The generosity of various donors to a fund in memory of Miriam Ottenberg, a former reporter for *The Washington Star*, has made this fund available to needy students. Preference is given to those majoring in print journalism.

**Willis L. Overdeer Scholarship:** Established by the estate of Willis L. Overdeer, this scholarship provides assistance to students from Delaware preparing for the United Methodist ministry.

**Carrie Oves Scholarship:** Awards are presented to students with financial need from any college or school of the university.

**George and Thelma Paraskevaides Foundation Scholarship Fund:** Established in 1985, this scholarship provides assistance to students from Cyprus pursuing undergraduate studies in the humanities and social sciences. Recipients must be in high academic standing and show financial need.

**Patterson/Smith Associates Scholarship:** This scholarship was established in 1990 and is awarded to a student majoring in business. Priority is given to those studying finance and interested in the insurance field.

**Charles Coolidge Parlin Scholarship:** This scholarship was established in memory of Charles Parlin, a past member of the Board of Trustees at the American University, through a gift by the Celanese Corporation. Students who demonstrate leadership qualities and academic excellence are considered for this scholarship.

**Mary Miller Patton Scholarship:** This scholarship was established in 1993 in honor of Mary Miller Patton (Faculty Emerita). It is awarded to juniors studying in the literature

department whose area of interest is 19th century English literature and who plan to pursue a career in teaching.

**Phi Delta Gamma Scholarship:** Established in 1988 by the Alpha Chapter of Phi Delta Gamma, this scholarship is awarded to a graduate student with a 3.5 grade point average who resides in the D.C. metro area and is working toward a doctoral degree.

**Albert Pike Scholarship:** This scholarship is funded by the Scottish Rite of the Southern Jurisdiction and is awarded to students enrolled in the School of International Service who plan to serve in a government position after graduation.

**Pittman Potter Award:** Awarded to students in the School of International Service.

**Sara Presciutti Memorial Scholarship:** Established by the family and friends of the late Sara Presciutti (CAS '96) in 1993, this scholarship is awarded to an AU student with an interest in Italian studies.

**Mary A. Pugh Scholarship:** This scholarship is awarded annually to a student enrolled in the School of International Service.

**Marton F. Purcell Memorial Scholarship:** This scholarship was initiated in 1968 by Francis D. Purcell to honor his wife, who was employed at the American University. This scholarship is awarded to a student in the School of International Service who demonstrates compassion and understanding to others.

**The Ramsey Memorial Scholarship:** This scholarship was established in 1941 by the Ramsey estate "for the education of ministers of the gospel of Jesus Christ."

**Regardie Scholarship:** Awarded to deserving students from the Washington, D.C. metropolitan area who are studying business.

**Nancy C. Reynolds Scholarship:** Established in 1992 to support scholarships for students attending the Washington Semester Program.

**Ethel Ridgeway Scholarship:** In 1978, 10% of the estate of Ethel Ridgeway was donated to assist qualified students preparing for the ministry.

**Effie Ritchie Scholarship:** A scholarship fund from the estate of Effie Ritchie was established to assist qualified students preparing for the ministry.

**Frank and Anthony Rodriguez Memorial Scholarship:** An endowed scholarship established in 1991. Interest from this account is used to provide a scholarship to an outstanding undergraduate student, with preference given to Hispanic students.

**Richard Ruddy Memorial Fund:** This scholarship fund was established in 1987 by the friends of Richard Ruddy (MBA '76). It is awarded to a graduate student studying finance. To apply, contact the graduate student affairs division in the Kogod College of Business Administration.

**Serge Sacknoff Memorial Sculpture Fund:** The fund was established to support an annual scholarship award for one or more undergraduate or graduate students in the sculpture program.

**Jack B. Sacks Scholarship:** Awarded to a deserving student for academic achievement in the field of business and advertising or marketing.

**Karim Said Foundation Scholarship:** The Karim Said Foundation supports an annual scholarship for two graduate students from the Arab world majoring in Computer Science or Technology of Management who intend to re-

turn to their countries. The award may be used for tuition, room and board, and travel.

**Agnese Gordon Sampson Scholarship:** Established in 1986 to provide undergraduate scholarship support to students, with preference given to minority students.

**Savage-Troubridge Scholarship:** Available to undergraduate students with outstanding academic qualifications enrolled in the School of International Service.

**Scher Family Scholarship:** Established in 1989, this scholarship is available to juniors majoring in communication who demonstrate financial need.

**Anthony Schwartz Scholarship:** Established in 1989 to aid chemistry students in their summer research.

**Colonel William E. Schooley Scholarship:** A tuition scholarship awarded to students in the School of International Service from funds provided by the Scottish Rites in the Valley of Washington for the Southern Jurisdiction, U.S.A.

**Shaskan Family Scholarship:** Made available by Mr. and Mrs. George B. Shaskan and family, this scholarship is awarded to a deserving undergraduate.

**Minnie Smith Scholarship:** Presented to qualified students from any college or school of the university.

**Southern Management Corporation Scholarship:** Established in 1992 to provide financial assistance to deserving business students with preference given to residents of Prince Georges County, Maryland, and residents or employees of Southern Management Corporation properties.

**T. Eugene Spragens Memorial Scholarship:** Established in 1990 by Dr. William C. Spragens in memory of his nephew. It is awarded to Washington Semester students studying economic policy or international business.

**Solon E. Summerfield Scholarship:** In 1982, the Summerfield Foundation established an endowed scholarship fund to aid deserving undergraduate students.

**Joel and Leona Tall Scholarship:** In honor of their fiftieth wedding anniversary, a scholarship was initiated in the name of Joel and Leona Tall, residents of the District of Columbia. The scholarship is intended to help young writers in the areas of literature and journalism.

**Theological Seminary Scholarship:** Intended for full-time undergraduates who wish to pursue theological studies at the Wesley Theological Seminary after graduation from the American University.

**George W. Townsend Scholarship:** Established in 1928 by George Townsend, this scholarship is presented to qualified students preparing for the ministry.

**Michael Trilling Memorial Scholarship:** Established in 1989 by the family and friends of Michael Trilling (B.A., CAS '63). This is a two-year award given to graduate students. The recipient is required to work in the Department of Athletics and Recreation's Sports Information office during the term of his/her award providing the student remains in good academic standing. Nominations are made by the director of the athletics department.

**Jayne Valecce Scholarship:** Provides funds to a needy student who works in the Office of Financial Aid. It was established by the Valecce family to memorialize Jayne Valecce, a former financial aid administrator.

**Marjorie Fraser Webster Memorial Scholarship:** This scholarship was established in 1977 to memorialize the founder and president of Marjorie Webster Junior College, Marjorie F. Webster. The scholarship is designed to assist

junior or senior women who have financial need and meet the university's academic requirements.

**Donald Weiss Family Scholarship:** This scholarship was established by the Donald Weiss family in honor of their son, Peter, to be awarded to a disabled student.

**Warner Wolf Scholarship:** This scholarship was established by Mr. Warner Wolf (B.A., CAS '60) in 1986 to fund a School of Communication student from the New York City area.

**Women's Guild of The American University Scholarship:** The Women's Guild of the American University provides a scholarship to a senior female student in the College of Arts and Sciences. The student must have attended the American University all four years and must show excellence in academics.

**George Woods Scholarship:** This scholarship is funded by a gift from Margaret P. Woods. Awards are made to qualified students from any college or school of the university.

**ZBT Endowed Memorial Scholarship:** This scholarship was established in 1992 in memory of deceased ZBT brothers. It is awarded to undergraduate students in good academic standing who are members of the Zeta Beta Tau fraternity or the son or daughter of a former ZBT member.

## Graduate Financial Aid

### Merit-Based Awards

#### Teaching Unit and Administrative Awards

Teaching unit awards usually involve assisting members of the faculty in their research or teaching. The awards are made by the teaching units according to their own criteria.

Fellowships provide a stipend and from 9 to 24 hours of tuition remission. There is a service commitment of up to twenty hours each week during each semester.

Assistantships provide from 9 to 24 hours of tuition remission during the academic year and require a service commitment of up to ten hours each week during each semester. The specific amount of the service requirement is determined by the teaching unit. Summer fellowships are available through the teaching units.

Administrative awards involve work in a variety of university offices and programs, including Student Life and the Computing Center. Potential recipients are nominated by the teaching units and final selections are made by the heads of the administrative units.

#### Graduate Honor Awards

Nominations for the Graduate Honor Awards are made by the teaching unit; academic merit and achievement are the principal criteria for selection. Recipients of these awards are selected by the University Graduate Honors Awards Committee. The dollar amounts listed are for the 1993-94 academic year and may change.

**Dean's Scholar Awards** provide a \$3,500 award and a teaching unit fellowship to outstanding newly admitted doctoral students interested in pursuing a college or university teaching career.

**John Fletcher Hurst Scholar Awards** consist of a \$3,500 award in addition to a teaching unit fellowship that includes a stipend and tuition remission. This renewable

award is initially available only to new students entering doctoral programs.

**Master's Scholar Awards** offer a \$2,000 award in addition to a teaching unit fellowship which includes a stipend and tuition remission. This renewable award is available to students entering master's degree programs.

**Special Opportunity Awards** are fellowships and assistantships awarded to American-born minority students (African-American, Asian, Pacific Islander American, or Hispanic-American). Recipients meet service requirements in their teaching units.

**Hall of Nations Scholarships** provide up to 18 hours of tuition remission during the academic year only. International students who do not have permanent resident status or U.S. citizenship are eligible to apply. There is no service requirement. The award is renewable if the recipient maintains a superior academic record.

**Landmarks Graduate Fellowship** in History is available to either M.A. or Ph.D. students in History with a special interest in public or museum history. Students serve half-time as an assistant to a Landmarks Assistant Professor of History and half-time as a research/exhibit assistant at the National Museum of American History (Smithsonian Institution). A stipend and tuition remission are available. This fellowship includes some summer obligations.

#### **Designated Foundation Awards**

**Massey Foundation Awards** are available only to Canadian citizens. They provide scholarship assistance of up to \$5,000 each year without a service requirement.

**United Methodist Graduate Scholarships** are available to members of the United Methodist Church who have strong academic records. The award provides 8 to 10 credit hours of remitted tuition. There is no service requirement.

### **Need-Based Assistance**

Some of the major sources of need-based loans are the Federal Perkins Loans and the Federal Direct Stafford Loan Program. These are described under "Federal Loans" in this chapter. (For more information, see also "Restricted University Loans" above.)

### **Other Sources of Financial Support**

Residence Hall Advisers carry out advising and administrative duties in the university residence halls in exchange for single rooms in the residence hall, a stipend each year, and 14 hours tuition remission a year. (See also "Grants," above.)

The Federal Work-Study Program provides opportunities to work part-time on campus. (Eligibility restricted to citizens and permanent residents of the United States.)

Students in the Cooperative Education Program receive academic credit and may be paid for faculty-supervised employment. (For more information, see "Cooperative Education Program" in the Special Opportunities chapter.)

Regular part-time employment is available both on and off campus. (See also "Employment Opportunities," below.)

## **Washington College of Law Scholarships and Grants**

Special law school scholarships, established by friends of the law school and the university, provide tuition assistance for full-time students. For more information, call (202) 885-2668.

### **Employment Opportunities**

The university Career Center provides assistance to students interested in obtaining employment to defray a portion of their college expenses.

**On-Campus Part-Time and Temporary Employment:** There are on-campus jobs available at the university.

**Off-Campus Part-Time and Temporary Employment:** A variety of part-time and temporary positions are available in the nearby area and in downtown Washington.

**Note:** International students must obtain an appropriate authorization to work before accepting employment and are advised to consult first with an international student adviser in the Office of International/Intercultural Student Services.

## **Veterans' Benefits**

The American University's degree programs are approved by the Educational Institution Licensure Commission, the state approving agency for the District of Columbia for enrollment of veterans (and eligible dependents of deceased or disabled veterans) for educational benefits under the various federal laws relating to veterans.

Forms and information may be requested from the Office of the Registrar at (202) 885-2235.

#### **New Students**

New students entering the American University must file a Veterans Application for VA Educational Benefits (22-1990) with a certified copy of DD-214 through the Office of the Registrar. Enrollment certification is then sent to the Veterans Administration by the Office of the Registrar to initiate benefits for the enrollment period.

Service men and women wishing to receive VA benefits for the first time must present the Serviceman's Application for VA Educational Benefits (22-1990). This form must be signed by the Education Office and the Commanding Officer.

Transfer students who have received VA educational benefits at another college or place of training and wish to receive VA benefits for the first time at the American University should file a Request for Change of Program or Place of Training (22-1995) through the Office of the Registrar. This form will then be sent to the VA's regional office in Washington, D.C. with the Enrollment Certification (22-1999) completed by the university.

#### **Continuing Students**

Continuing students need only file the American University VA claim card for educational benefits each semester with the Office of the Registrar. All changes in registration (adds, drops, and withdrawals) must be reported to the Office of the Registrar, Veterans Counselor.

**Payment and Financial Responsibility**

With the exception of disabled veterans who are training under Vocational Rehabilitation, all beneficiaries of educational benefits from the VA are personally responsible for the payment of their bills to the university. These persons should come to the university financially prepared to pay tuition and fees. The VA checks for educational benefits are sent directly to the student or address designated on the American University claim card. Students who wish to receive advance payment must file an advance payment request form. Students who request and are granted advance payment pick up only the first check issued through the Office of the Registrar, Veterans Counselor. Thereafter, the checks are sent directly to the student or address on file with the VA. It takes six to eight weeks from the time of filing a veterans semester claim card with the Office of the Registrar before the first check arrives. Veterans whose claim cards are completely filled in will have their claims processed first. Incomplete claim cards (e.g., no file/claim number) will be processed last.

The Veterans Administration interprets "completion of credits" differently from the university, and this difference should be noted. VA benefits are awarded on the basis of the expected completion of a certain number of credits each semester as stated on the Veteran's Certification

Form. Completion is defined to mean grades of A, B, C, D, F, P, or ZF. However, veterans who drop below the anticipated level by receiving a W, L, or N will be in overpayment status, according to the Veterans Administration. Future benefits will be reduced for later periods of enrollment or, should no further enrollment occur, students would have to refund money directly to the Veterans Administration. The VA directs the university to notify them of a change in status for students during or immediately after the end of the month in which the change occurs. Thus, when the Office of the Registrar learns in the third or fourth week of May that a veteran has reduced his or her credit hours of enrollment because of withdrawals, audits, or no grade reported, it notifies the VA immediately after the end of May (in early June). Under mitigating circumstances exceptions to the above policies may be made through the Veterans Administration Regional Office.

The Office of the Registrar is located on the second floor of the Asbury Building, and is open from 9:00 a.m. to 5:00 p.m., Monday through Friday. While every effort has been made to provide accurate and complete information, changes in federal regulations and university policy may occur at any time without notice, and students should use this material as a general guide.





# Student Life

## Division of Student Life

Serving students' needs in support of their academic endeavors, the Division of Student Life offers a variety of programs, from psychological, learning, and health services to student government and international programs. The division is headed by the Vice Provost for Student Life, assisted by the Dean of Students and the Director of Student Services, and provides cocurricular benefits to all students. The Division of Student Life recognizes that a student's college experience needs to be supported and nurtured by people and events inside and outside the classroom. Thus, it is the mission of its staff members to provide the academic, emotional, cultural, spiritual, and social support to ensure student success.

In one way or another every student is served by the activities sponsored by the division. Departments and services include:

- Center for Psychological and Learning Services
- Disability Support Services
- Greek Affairs
- Information and Off-Campus Housing
- International-Intercultural Student Services
- Judicial Affairs and Mediation Services
- Kay Spiritual Life Center
- Multicultural Affairs
- Residential Life and Housing Services
- Student Activities
- Student Health Center
- Student Health Insurance Plan
- Tuition Refund Insurance Plan
- In addition, there are numerous student government organizations, campus media, honor societies, and special interest groups.

The Title IX Officer for students is available through the Division of Student Life. For more information, consult the *Student Handbook* or call (202) 885-3300.

## Center for Psychological and Learning Services

The Center for Psychological and Learning Services provides opportunities for help with one's personal and academic concerns. Students may receive counseling and assistance in a variety of areas.

### Psychological Services

Intake, individual and group counseling, referral and crisis intervention are available through Psychological Services. In addition, the staff offers workshops on issues related to personal growth and social skills. A stress management program designed to help students develop effective coping strategies is offered each semester for undergraduate and graduate students.

The psychological services staff is composed of psychologists and social workers who are experienced in working with college students. All discussions are confidential in conformity with federal and local law.

The center is the site for information regarding national tests such as the CLEP, GMAT, GRE, and LSAT. Bulletins for these tests may be secured at the testing table outside Mary Graydon Center 201. Questions should be directed to the Testing Office at (202) 885-3364. Messages may be left on voice mail.

### Learning Services

Learning Services offers individual and group assistance for improving learning skills important to academic success in college. Workshops and sessions with counselors are available in areas such as writing and study skills, critical reading, time management, speed reading, note-taking, examination skills, and reading comprehension.

Students with learning disabilities may receive academic support from the center. More specific help is available to those freshmen admitted to the Learning Services

Program. (A fee is required for this program. Consult Learning Services for more information.)

The center also provides referral to qualified peer tutors (who charge reasonable fees) for many courses.

The Center for Psychological and Learning Services is located in Mary Graydon Center 201, (202) 885-3360.

## Disability Support Services

The staff of the Office of Disability Support Services works with persons having temporary or permanent disabilities to promote their full participation in academic programs and campus activities. Support services, as they are required, are intended to remove competitive disadvantages so that students with disabilities may realize their own potential and objectives.

Most of the university's educational programs are readily accessible to students with disabilities, and the university continues to take steps to eliminate barriers to participation by qualified students.

To provide adequate time for any preparations required of the university, applicants with disabilities are encouraged to make their plans and, especially, to visit the campus as early as possible in the application process; campus tours may be arranged through the Office of Admissions. The university will treat confidentially all inquiries from applicants with disabilities. Any information voluntarily provided will in no way be used in evaluating the applicant's file for admission; it will be used only to assist the student.

Applicants who may need and be eligible for tuition benefits and auxiliary aids (such as readers and interpreters) should apply for vocational rehabilitation benefits through their home states as early as possible when making their college plans.

Accessible housing is available, both in traditional residence halls on campus and in apartment units near the campus. A reference librarian will assist students with disabilities in using the university library, consortium libraries, and the resources of the Library of Congress.

Pre-admission inquiries may be addressed to and general information obtained from the Office of Disability Support Services, located in Mary Graydon Center 120, (202) 885-3315 (voice), or (202) 885-3316 (TDD). The coordinator for the office is Shelly Heath.

## Greek Affairs

The Greek Affairs staff supports the activities of the eighteen sororities and fraternities on campus as well as the Panhellenic Association (the governing body for sororities), the Interfraternity Council (the governing body for fraternities), and the Panhellenic Council (the governing body of the historically Black fraternities and sororities). The university has an active and growing Greek community dedicated to the ideals of developing leadership and social skills, community service, friendship, and academic excellence. Approximately 21 percent of undergraduates belong to Greek organizations. Activities include formals, alumni/ae and parent receptions, Greek Week, blood drives, and other events.

## Information and Off-Campus Housing Resource Center

The Information Center is a resource center for the university community. Services include providing information about activities on and off campus, Metro bus and rail and American University shuttle schedules, airline and Amtrak schedules, student services, and campus telephone numbers and locations. The center also acts as a resource for people looking for off-campus housing. Computerized housing listings, roommate referrals, area maps, and other resources are available. In addition, the office provides seminars and conferences on how to search for off-campus housing and related issues. Located in 121 Mary Graydon Center, the Information and Off-campus Housing Resource Center is open seven days a week.

## International-Intercultural Student Services

One of the university's distinctive educational characteristics is its cosmopolitan and multicultural campus population: more than 11,000 students from over 130 countries, including students from all fifty of the United States, are currently enrolled. This cultural and international diversity of the university community provides students with the opportunity to explore political, economic, environmental, and social perspectives with others who, in the near future, will likely be some of the decision makers for the world's businesses and governments. To take advantage of this unique educational resource, the Office of International-Intercultural Student Services (OIS) promotes intercultural programs, provides cross-cultural advising, and shares responsibility for monitoring university policy, programs, and services to ensure the vitality of the university's cultural diversity.

OIS seeks to develop awareness, understanding, and appreciation of cultural differences within the university community. Primary support services, which use the resources of the nation's capital and the university's diverse administrative and academic resources, include providing cultural adjustment assistance, pre-arrival, initial entry, and on-going orientation, and advising about academic, personal, social, cultural, career, and employment matters. OIS provides comprehensive orientation programs each fall and spring semester for international students. In addition, OIS sponsors a unique one-day orientation each fall semester for those students who have lived and studied a significant part of their developmental years outside their country of citizenship as dependents of either business, foreign service, international agency, military, or missionary parents.

OIS is also the university's administrative unit authorized by the U.S. Immigration and Naturalization Service (INS) and U.S. Information Agency (USIA) to issue and sign the nonimmigrant documentation required of foreign/international students, foreign scholars, exchange visitors, and foreign temporary workers of distinguished merit and ability.

The Office of International-Intercultural Student Services is located in the Butler Pavilion, room 408; telephone, (202) 885-3350; fax (202) 885-3354. Office hours are Mon-

day through Friday, 9:00 a.m. to 5:00 p.m. Refer to the *Schedule of Classes* for extended hours of operation during "Extended Hours" and "Late Registration" periods.

## Judicial Affairs and Mediation Services

The Division of Student Life, through the Office of the Dean of Students, provides the university community with two judicial boards, the Hearing Board and the Board of Examiners (appeals level). These two Conduct Council bodies handle all non-academic grievances resulting from alleged violation of the Rights and Responsibilities, the Code of Conduct (see "Code of Conduct"), and the Regulations for Student Conduct in the Residence Halls. Sixty percent of the membership of the Conduct Council is made up of students, twenty percent is faculty and twenty percent is staff. The Hearing Board is in charge of hearing a complaint against a student, arriving at findings about the incident, and recommending sanctions. The Board of Examiners (BOE), upon the request of the respondent, reviews the Conduct Council hearing and either grants or denies the review request.

In addition, the residence halls have an administrative Conduct Council procedure for minor violations of university regulations. The Administrative Judicial Action (AJA) provides a quick, informal, and individual administrative procedure instituted by a professional Residential Life staff member when the student acknowledges responsibility for the behavior.

Service on the Conduct Council provides a valuable experiential learning situation for all students. The Conduct Council is founded on the values of equity, due process, and education. Both the Conduct Council and Administrative Judicial Action files are kept on record as confidential disciplinary actions in the Office of the Dean of Students in accordance with federal law and university policy concerning student records.

Mediation Services strives to facilitate communication and resolve difficulties between people in conflict, and to educate community members about appropriate conflict management and resolution. The end product of mediation is an agreement reached by the parties in dispute. Teams of trained faculty, staff, and student mediators facilitate sessions for conflict resolution for all members of the university community.

## Kay Spiritual Life Center

The round building at the north end of the quad—the Kay Spiritual Life Center—is an interfaith house of worship and home to a rich array of faith communities, cultural and educational programs, student organizations, feasts, festivals, and circles of prayer and activism.

In keeping with the university's commitments to inquiry and diversity, the center seeks to be not only a haven for the religious and a refuge for the weary, but a crossroads where people of conscience, intellect, and spiritual curiosity find a place for their questions, dreams, and struggles. The center seeks to foster a climate of interfaith understanding and openness in which matters of faith and value

are recognized as an integral part of human growth and of university life.

Regular services of worship and religious observances are held throughout the year by Buddhist, Catholic, Jewish, Muslim, Protestant, and Vedic/Hindu communities. In addition, the center sponsors special interfaith celebrations as well as a host of workshops, panels, retreats, outings, and social-action opportunities. Student organizations involved in the work of the center include Amnesty International, AU Gospel Choir, Baptist Student Fellowship, B'Nai Brith/Hillel Foundation, Catholic Law Student Association, Catholic Student Association, Graduate Christian Fellowship, Christian Science Organization, Habitat for Humanity, Hunger Action, Jewish Student Association, Lutheran Student Association, Methodist Student Fellowship, Muslim Student Association, Presbyterian Fellowship, Protestant Student Council, Protestant Worshipping Community, and Unitarian Universalist Student Group.

Chaplains from the diverse faith traditions assist in organized events and are available to students, faculty, and staff for religious counseling, spiritual direction, programming, advisement on issues of faith and ethics, residence hall programs, weddings, bat and bar mitzvahs, memorial services, and personal support. For more information stop by the Kay Center or telephone (202) 885-3320.

## Multicultural Affairs

The Office of Multicultural Affairs assists minority students by providing counseling and tutoring services to encourage academic success. The cultural interests of the minority community are served through a series of lectures, seminars, historical tours, receptions, award ceremonies, and festive events. The Office of Multicultural Affairs has a small resource center containing historical and cultural materials as well as career information for undergraduate and graduate students. The Frederick Douglass Scholarship Program and the High School College Internship Program (HI/SCIP) are housed within this unit.

The Office of Multicultural Affairs is located in Butler Pavilion, room 404; telephone (202) 885-3651.

## Residential Life and Housing Services

Living on campus is a unique and rewarding experience. Learning in the classroom is extended into the residence halls through special interest housing such as the ATO fraternity floor, the Living-Learning Center, the Honors Program floor, and the Leonard Intercultural Hall; and through floor and hall programs, such as talks by faculty members and workshops by the Learning Services staff. Upperclass and some graduate students are specially selected as resident assistants (RAs) to ensure that the atmosphere on each floor is open, friendly, and supportive. RAs receive extensive training in listening, program planning, cross-cultural communication, advising, dispute resolution, and crisis intervention. They organize floor participation in social gatherings, academic programs, and cultural events both on and off campus. Each residence

hall is directed by a live-in, full-time professional resident director. These professionals hold advance degrees in counseling, educational administration, and related fields.

The university offers housing in ten residence halls to more than 3,300 undergraduate men and women. Most rooms are doubles, accommodating two students. A very limited number of singles are available to seniors at a higher cost. Most halls offer both single-sex and coed floors or wings.

The Living-Learning Center and Honors Program floors are available for selected students. The College of Arts and Sciences office, located in Gray Hall, administers the Living-Learning Center and should be consulted for further information about the program. Information about the Honors floor is available from the Honors Program Office, 312 Ward.

Leonard Hall provides residents with an intercultural living environment. Students are encouraged to share their particular backgrounds and to learn about the cultures, languages, and religions of the other residents. Leonard Hall also houses the SIS Diplomacy Program. Information on these and other special interest housing options are available from the Office of Residential Life and Housing Services.

Space in university residence halls is offered first to full-time undergraduate students as available. Limited space may be provided for graduate, law, and part-time undergraduate students when available. Students in all these categories should consult the Office of Residential Life and Housing Services for assignment information. **The housing agreement is binding for a full academic year (fall and spring semesters).** Room rates are listed in the "Tuition, Expenses, and Financial Aid" chapter of this publication. Health insurance coverage is a prerequisite for on-campus residence.

Housing information and applications for entering students are included in the admissions packet. Returning students are given the opportunity during the spring semester to apply for space.

Rooms contain basic furnishings. Electrical equipment permitted in residence hall rooms is limited to low-wattage appliances. Kitchen facilities are available on each floor. Students may not cook in their rooms.

Each residence hall on the main campus has a 24-hour front desk operation (except Nebraska Hall which has coverage between 9:00 a.m. and midnight Monday through Saturday and noon to 6:00 p.m. on Sunday) that serves as the hall information center and oversees access to the hall. Resident students must observe all university regulations, including those specified in the housing agreement that they (and their parents, for students under eighteen) sign and those found in the *Student Handbook*. Students are held responsible for damage to their rooms and floors during their period of occupancy and are billed, either individually or with roommates, subtenants, or hallmates for damage. **The residence halls close completely during the period between fall and spring semesters.**

Freshmen, sophomores, Nebraska Hall residents, and Washington Semester residents are prohibited from having motor vehicles on campus.

Refunds for students withdrawing from housing are made in accordance with the schedule contained in the housing agreement. Residents are reminded that the

housing agreement is binding for the fall and spring semesters.

The Office of Residential Life and Housing Services is located in Butler Pavilion 406, (202) 885-3370.

## Student Activities

The Office of Student Activities provides programs and services in several areas designed to enhance the personal, social, and intellectual growth of students.

Members of the staff serve as the primary advisers to the Student Confederation, the Confederation Media Commission, the Graduate Student Council, the Student Union Board, the Kennedy Political Union, and a variety of clubs and organizations. The staff provides leadership training and skills development throughout the year with a series of workshops, and seminars. A leadership library is also available.

The office also initiates, administers, and interprets university policies and procedures affecting student groups, including the following: student events in the Tavern; recognition of new student organizations; noise and sound standards for activities; facilities use and requests; funding and purchasing for student organizations; and freedom of expression. The Office of Student Activities is located in the Mary Graydon Center 200; (202) 885-3390.

## Student Volunteerism and Community Service

Community service is an important aspect of education. To assist students in identifying appropriate service-learning opportunities, the university sponsors programs and provides a clearinghouse through the Office of Student Activities for community and campus volunteer opportunities.

Activities include a special tutoring program at a multi-cultural junior high, project LITTT (Literacy is for Today and Tomorrow), which offers tutoring opportunities with elementary school children, the Volunteer Fair, a drug awareness program, literacy volunteers for members of the university community who may need special support, and periodic group service projects in the community. Information is available in the Office of Student Activities, Mary Graydon Center 200, (202) 885-3390.

## Orientation and Parent Programs

SOAR (Student Orientation, Advising, and Registration), Fall Orientation, Transfer Orientation, Adult Orientation, Graduate Orientation, and Family Weekend are several of the programs run through the Office of Student Activities.

## Student Health Center

Located on the first floor of Nebraska Hall, the Student Health Center is available to all full-time undergraduate, graduate, and law students. Off-campus students may use the center for a fee each semester.

The center provides a variety of ambulatory outpatient medical services, most without cost, some with a modest fee. Services include primary ambulatory medical care, allergy injections, gynecological services, some immunizations, and first aid. Care is provided by physicians,

physician assistants, nurse practitioners, and registered nurses. Health education services are provided by all health care providers and by the Health Educator. Counseling is available to help students with diet, stress, and substance abuse problems. Patients are seen on an appointment basis.

Complex medical problems and emergencies that occur when the center is closed are referred to a local hospital. In such cases, the students are responsible for the accompanying charges. For more information, call the Student Health Center at (202) 885-3380.

### **Required Immunizations**

District of Columbia Law 3-20, Immunization of School Children, requires that all students under the age of 26 attending school in the District receive the following immunizations:

**Polio:** For each student 18 years of age until his or her 26th birthday, polio vaccine immunization is not required. If unimmunized for polio, it is recommended that the student receive two doses of enhanced potency Inactivated Polio Vaccine (e-IPV) at least six weeks apart and a third dose at least six months after the second dose. Previously administered vaccine doses of conventional IPV may be counted. A total of four doses is needed for a primary series.

**Tetanus-Diphtheria:** For each student 18 years of age until his or her 26th birthday who is receiving his or her primary immunization, two tetanus-diphtheria (Td) vaccine doses at least six weeks apart and a third dose at least six months after the second dose are required as follows:

a) all DTP doses previously administered may be counted in the requirement; and b) if more than ten years have elapsed since the primary series or the last booster was received, then an additional Td booster shall be required.

**Measles:** Two doses of measles vaccine shall be required for each student enrolled in grades 7-12 and all post-high school programs, if not previously administered as follows: a) the first dose shall be administered at 12 months of age or older and been administered after 1968; b) the second dose should be given no less than one month after the first dose; and c) written certification of the second dose shall be presented to a school official upon admission to the university.

**Rubella:** Two doses of rubella vaccine shall be required for each student enrolled in grades 7-12 and all post-high school programs, if not previously administered as follows:

a) the first dose shall be administered at 12 months of age or older; b) the second dose should be given no less than one month after the first dose and c) written certification of the second dose shall be presented to a school official upon admission to the university.

**Mumps:** Two doses of mumps vaccine shall be required for each student enrolled in grades 7-12 and all post-high school programs, if not previously administered as follows: a) the first dose shall be administered at 12 months of age or older; b) the second dose should be given no less than 1 month after the first dose; and c) written certification of the second dose shall be presented to a school official upon admission to the university.

Laboratory evidence of immunity for each vaccine-preventable disease may be accepted in lieu of the required vaccination for each of the diseases described.

To comply with the law, students under the age of 26 must have received all the doses in each immunization series, and return the Medical Report form, which includes immunization records, to the Student Health Center upon admission to the university. Registration may be blocked for any student who has not submitted a written record of complete immunization.

## **Student Health Insurance Plan**

Health insurance—private, group, or the university-sponsored health insurance plan—is mandatory for all students residing in university housing, for all full-time students, and for international students (except those on A, G, or H visas). Students in the mandatory categories listed above who do not waive coverage by the deadline will be billed automatically for the university-sponsored plan. Detailed information concerning this plan is available in the Student Health Center, Nebraska Hall. For more information call the Student Health Insurance Coordinator at (202) 885-3384.

## **Tuition Refund Insurance Plan**

For information about the Tuition Refund Insurance Plan, see the "Refunds and Cancellation of Charges" section of the previous chapter, or contact the Student Health Insurance Coordinator, Student Health Center, Nebraska Hall, (202) 885-3384.

# Student Organizations

## Student Confederation

The Student Confederation (SC) is the undergraduate student government representing the academic, political, social, and cultural interests of its constituency. This confederation of organizations extends beyond the normal student governing body by including the International Student Association, the Black Student Alliance, and the Women's Confederation. The General Assembly (GA), the legislative branch of the SC, is composed of the SC Executive Board as well as representatives from each residence hall, each school or college, each class, and commuter students. Bi-weekly meetings of the GA are held to establish policies governing SC operations, to voice opinions in regard to student concerns, and to allocate funds to student organizations and special projects. Elections for GA and executive positions are held during the spring semester.

Three major parts of the SC are the Student Union Board (SUB), the Confederation Media Commission (CMC), and the Inter-Club Council (ICC). The SUB is the programming arm of the SC, sponsoring events including movies, concerts, comedy nights, and coffee houses. The CMC coordinates all SC-funded media and provides oversight to student publications such as *The Eagle* newspaper, *Uhuru*, "The International Voice," the *American Literary* magazine, *The Talon* yearbook, *The Rostrum*, and broadcast media such as WVAU and A-TV. The ICC oversees and funds all special-interest clubs on behalf of the SC. For more information, stop by Mary Graydon Center 217 or call (202) 885-6400.

## Graduate Student Council

The Graduate Student Council (GSC) is the governing organization that represents the views of the graduate student community to the university. The GSC is the parent organization of twenty-two academic unit councils throughout the university. Through a yearly activity fee, the GSC allocates funds to the graduate departmental councils and oversees the graduate publication, *The Graduate Review*, which highlights graduate research, art, poetry, and other original works. The GSC has an Executive Council that is elected every spring. The Executive Council also organizes various other activities of interest to the graduate community such as lecture series, conferences, and social events.

## Residence Hall Association

The Residence Hall Association (RHA) is a specialized student government representing all resident students. Its major responsibility is social and educational programming in each hall as well as participating in campus-wide activities.

The association makes recommendations to the Office of Residential Life and Housing Services concerning the operation and management of the residence hall system, and it monitors university policy as an advocate of resident students.

## Intercultural Organizations

There are many intercultural student organizations that are active during each academic year. They are open to all students. Among them are the following prominent ongoing organizations:

The International Student Association (ISA) serves as the official advocate for all international students enrolled at the university. The association's goal is to assist international students in their adjustment to their new academic and social environment and to increase understanding and cooperation among international and American students. Students from geographic regions and specific countries also form clubs in order to share common interests and goals. The International student community publishes "The International Voice" bi-weekly as part of the campus newspaper, *The Eagle*.

Many of the university's national and foreign students lived outside their country of citizenship before entering college. As a result of this unique educational and living experience, these students have formed a Third Culture Students Association. The Black Student Alliance (BSA) supports the African American, African, and Caribbean student community by providing academic, cultural, and social activities. Other minority organizations include the Gospel Choir, the Black Law Student Association, and the Graduate and Professional Students of Color (GPSC). In addition, the issues and concerns of the African American community are examined by the student publication *Uhuru*.

The Jewish Student Association enriches campus life by sponsoring events, providing a support network, and discussing current issues in conjunction with Hillel and Merkaz.

## Lectures

Many student organizations and governing boards sponsor or cosponsor speakers that enrich the academic environment. The award-winning Kennedy Political Union (KPU) is the primary student lecture board for the university. President of NOW Patricia Ireland, rap artist KRS-1, former Chair of the Joint Chiefs of Staff General Colin Powell, former Secretary of State Alexander Haig, astronomer Carl Sagan, and Journalist Andy Rooney have been some of the recent speakers sponsored by KPU. This organization is located in the Student Confederation office complex, Mary Graydon Center 217.

## Professional, Scholarly, and Honorary Societies

Select students may seek appointment to both professional and service honoraries. Membership is available in the American University chapters of Golden Key, Mortar Board (honors seniors for student leadership, scholarship, and service), Omicron Delta Kappa (honors junior, senior, graduate, and law students in six major phases of campus life), and Alpha Lambda Delta (honors freshmen for scholastic achievement).

There also exist professional honoraries and academic organizations established in the fields of business, chemistry, communication, criminal justice, economics, education, history, international service, journalism, music, political science, prelaw, premedicine, psychology, public affairs and administration, and sociology.

## Music

Musical groups on campus include the American University Chorale, Orchestra, Singers, Pep Band, Music Society, and Gospel Choir. The American University Singers schedule concert tours in addition to their campus programs. The Department of Performing Arts also sponsors Pizazz, a musical performing troupe. Qualified students may register for credit in most of these musical organizations.

## Drama and Dance

The University Players present classic and contemporary productions throughout the year and also schedule play readings, one-act plays, and dramatic television productions. The Department of Performing Arts sponsors annual fall and spring dance concerts and open workshops with guest artists in residence.

## Political Organizations

Political organizations on campus encourage participation in local and national political activities and sponsor events attended by members of Congress, journalists, and others active in the political arena. Among the campus political organizations are Amnesty International, the College Democrats, the College Republicans, and the Model United Nations.

## Special Interest

The university recognizes over 80 special interest clubs and organizations, including such groups as the Catholic Student Association, the Gay, Lesbian, and Bisexual Community, Habitat for Humanity, and the Martial Arts Club. For a complete list of clubs and organizations or for information on how to start a club, contact the Office of Student Activities, Mary Graydon Center 200, (202) 885-3390.

## Student Media

Numerous opportunities exist for students interested in practical experience in the various forms of print and broadcast media. The American University is fortunate to have the following media: *The Eagle* (weekly student newspaper), *Uhuru* (the student African American newspaper), "The International Voice," the *American Literary* magazine, *The Rostrum* (economics/political science journal), the *Talon* yearbook, and WVAU radio and A-TV (student television). All of these media can be contacted through the Student Confederation.

## Greek Organizations

Eighteen sororities and fraternities provide service, promote scholarship, encourage leadership, and create an atmosphere for active social, philanthropic, and campus involvement. The national sorority chapters on campus are Alpha Chi Omega, Alpha Epsilon Phi, Alpha Kappa Alpha, Chi Omega, Delta Gamma, Delta Sigma Theta, Phi Mu, Phi Sigma Sigma, and Sigma Delta Tau. Fraternities include Alpha Phi Alpha, Alpha Sigma Phi, Alpha Tau Omega, Delta Chi, Delta Tau Delta, Kappa Alpha Psi, Phi Sigma Kappa, Sigma Alpha Mu, and Zeta Beta Tau (currently suspended until spring semester 1995).

A Greek honor society, the Order of Omega, exists to recognize and promote leadership development and scholarship.

The Interfraternity Council, which governs fraternities, offers a forum for chapter discussions, provides programming to the chapters, regulates rush activities, and is an active part of the Greek community. The governing body for sororities, the Panhellenic Association, oversees and coordinates the rush program, sponsors social and philanthropic programs, hosts events pertaining to women's concerns, and represents sorority interests. The Panhellenic Council provides support and governs the activities of the predominantly Black sororities and fraternities that are active on campus.



Career Expo brings hundreds of prospective employers to campus each fall.



# Career Services

## Career Center Services

Career education is a life-long process and the Career Center is the place to begin. The Career Center offers a sequence of programs designed to accompany and enhance the student's academic studies. These integrated, comprehensive career services for American University students and alumni begin with career preparation and field experience through the center's Cooperative Education Program, and continue with its career planning programs. Students are encouraged to follow the sequential model and begin using the Career Center's services to develop career awareness as early in their academic programs as possible. Students also should explore awards and fellowship options as early as possible, since it may take a year or more to prepare as a candidate for these selective competitions (see "Student Awards and Fellowships").

The following is a summary of the career decision making process for each year of academic study.

**Freshman:** Exploring academic majors and career options.

**Sophomore:** Deciding academic majors, exploring career options, and gaining hands-on experience.

**Junior:** Focus on career fields and gaining experience in specific careers.

**Senior/Graduate student:** Narrow career options and decide post-graduate goals.

All Career Center services should be pursued as a parallel to classroom learning throughout students' academic programs at the American University.

## Career Resources

**Career Resource Library:** Career exploration and job search assistance is provided through an extensive collection of career information, including directories, books, and periodicals. Annotated bibliographies help students identify appropriate resources.

**Career Network:** More than 1,000 alumni and friends of the university willing to talk with students about career

planning are listed by professional field, college major, company, and geographic location.

**Employer Files:** More than 1,200 companies have provided literature to help students research potential employment sites.

**Job Listings Service:** To help students support their studies, the Career Center maintains listing of part-time, temporary, and summer jobs on and off campus. More than 50,000 positions are listed each year. Students interested in part-time jobs should inquire at the center as soon as possible after arriving on campus. Full-time professional positions, a multitude of government, state, local, and organizational job listings, and computerized job listings are available.

## Career Preparation

**Career Course:** To help integrate education and career planning, the course 21.203 Career Education: You and Your Future is offered each semester through the School of Education. This is a ten-week course for students who are unsure about their majors or wish to assess their skills, values, and interests for career planning.

**Workshops:** Workshops and materials are offered on resume writing, interviewing skills, and the job search. These are designed to help students make a planned transition from college to work and to take full advantage of cooperative education and permanent employment opportunities. The Career Center calendar, available to all students, provides a daily schedule of workshops.

**Self-Assessment Tools:** The following career-planning instruments provide and inventory of personal interests and preferences for students to consider as they pursue a career or job search: Myers-Briggs Type Indicator, SIGI+, Campbell Interest and Skill Survey, and the Self-Directed Search.

**Career Advising:** Each of the major colleges and schools at the university has a career planning coordinator in the Career Center who advises students about career development and employment issues.

**Special Events:** Career Center staff host annual events such as Career Discovery Days, Career EXPO, and Career

Quest Week which bring speakers and employer representatives from a wide variety of organizations to meet with students and exchange information. Career Center staff also play a leading role in organizing annual area events such as the International Student Job Fair, Careers DC, and the Washington International Trade Association Career Day.

## Career Planning Services

**Job Search Orientation:** Overview of job search techniques, career advisement, on-campus recruitment, resume referral, and information sessions. Mandatory for students seeking job search assistance. Graduating students and alumni must attend this orientation to register with Career Planning Services.

**On-Campus Recruitment Program:** Graduating students and alumni registered with Career Planning Services have the opportunity to interview for a variety of permanent positions with recruiters who visit campus each year.

**Information Sessions:** Sessions offered by employers prior to on-campus interviewing to give students the opportunity to learn about the organization, career fields, and the interview process.

**Resume Referral Service:** In addition to on-campus recruitment, graduating students and alumni registered with Career Planning Services also gain access to employers by having their resumes referred in direct response to specific job openings. Several hundred employers participate in this program each year.

## Student Awards and Fellowships

For information see "Student Awards and Fellowships" in the Undergraduate Study chapter.

## Cooperative Education

For information see "Cooperative Education Program" in the Special University Programs chapter.



# General Academic Information and Regulations

As part of providing a high-quality education, the university continuously examines its academic requirements. As a result, the information contained in this and other sections of this publication may be revised. Students should consult their deans or department chairs for any new requirements that may affect their individual programs of study.

## Academic Advising

The American University considers academic advising an essential element of the educational process. The various advising resources at the university are available to help students define the choices they must make and to give any needed guidance. Students with academic concerns may seek assistance from course professors, faculty and professional advisers, peer advisers, department chairs, deans, and various student support services throughout the university.

The university recognizes differing advising needs of students and provides opportunities to ensure that these needs are met. Some students prefer close supervision and support from advisers through each step in the educational process. Other students prefer to seek guidance on a more informal, intermittent basis.

The American University requires adviser-student conferences at least once a semester. The student, however, bears the ultimate responsibility for selecting courses, meeting course prerequisites, and adhering to policies and procedures. An adviser assists the student in order to ensure a well-balanced education and interprets university policies and procedures.

It is the student's responsibility to be aware of the many advising resources of the university and to use these resources as needs arise. The university maintains responsibility for ensuring that these resources maintain high standards for serving students effectively and efficiently and that needs are being met.

See also: Career Center, Center for Psychological and Learning Services, Nondegree Study, Adult and Contin-

ing Education, and International-Intercultural Student Services in this publication.

## Grading System

### Calculated in the Grade Point Average:

Grade	Quality Points
A (Excellent)	4.0
A-	3.7
B+	3.3
B (Very Good)	3.0
B-	2.7
C+	2.3
C (Satisfactory)	2.0
C-	1.7
D	1.0
F	.0
X (administrative penalty)*	.0

\*The X grade is assigned by the instructor in lieu of an F when a student never attended or ceased attending the class, rendering an assessment of academic performance impossible.

### Not Calculated in the Grade Point Average:

I . . . .	Incomplete
IP . . . .	in progress
	(for a course for which a grade is not necessarily due at the end of the semester, e.g. independent study)
L . . . .	auditor (no credit)
N . . . .	no grade reported by instructor or invalid grade
P . . . .	pass
W . . . .	withdrawal
ZF . . . .	fail on pass-fail option
ZL . . . .	administrative withdrawal from audit
ZX . . . .	fail (administrative penalty) on pass-fail option

### Grade Point Average

The cumulative grade point average includes only those courses taken for conventional grades (A through F). Courses below the 100 level or taken pass-fail are not

## 74 General Academic Information and Regulations

included in the grade point average, nor are grades of Incomplete (I). See also "Repetition of Courses" below.

Credit accepted for transfer from another institution is included in the total amount of credit applicable to degree requirements, but grades earned in such courses are not recorded on the permanent record at the American University and are not used in computing the cumulative grade point average needed for graduation.

### Pass-Fail

For undergraduate students, the grade of P indicates a quality of performance no less than C (2.00) on a conventional grading scale. For graduate students, the grade of P indicates performance equivalent to a B (3.00) or better on a conventional grading scale. Performance below these levels is reported as ZF.

Neither the P grade nor the ZF or ZX grade is calculated in the grade point average. Degree credit, however, is received with the grade of P.

### Incomplete Grades

At the discretion of the faculty member, the grade of I (Incomplete) may be given to a student who, because of extenuating circumstances, is unable to complete the course during a semester. The grade of Incomplete may be given only if the student is receiving a passing grade for the coursework completed. Arrangements for a grade of Incomplete must be made in advance of the final examination. An Incomplete Contract form detailing what work is to be submitted, the deadlines for such submission, and a grade to be substituted for the I should submission deadlines not be met is signed by both the student and the faculty member. The submission deadline should not extend beyond the last day of the following semester (not counting summer).

No grade of I will be recognized by the Office of the Registrar without the proper documentation. On completion of the requirements of the course within the time specified on the Incomplete Contract form, the grade of I must be resolved to a grade of A through F, P, or ZF. Unless resolved by the faculty member to one of these grades, the substitute grade specified on the Incomplete Contract form will be inserted as a final grade in place of the I by the Office of the Registrar. A W may not be given to remove a grade of I. An I may not stand as a permanent grade. (For regulations pertaining to independent reading courses and independent study projects, see the appropriate section in this publication.)

### Communication of Grades to Students

Grade reports are mailed to students as soon as possible after the end of an academic session. At the time the first grade reports are issued, an N is substituted for each grade that has not yet been received. Supplemental grade reports are prepared as changes occur and such changes are reported weekly to students and deans by the Office of the Registrar. Many instructors release grade results to their students in various ways as soon as they have completed their evaluation.

### Changes in Grades

Once reported, a grade may not be changed except to remove a grade of I (Incomplete) as stated above, or to correct a grade recorded in error. To remove a grade re-

corded incorrectly, the faculty member must certify in writing to the Office of the Registrar that an error was made.

### Repetition of Courses

Whenever a course is repeated, each attempt, including the final grade, is entered separately on the permanent academic record. Unless specifically indicated to the contrary, however, only one successful attempt of a course is counted toward fulfillment of graduation credit requirements. With the exception of the Freshman Forgiveness rule (see the Undergraduate Study chapter in this publication), the grades received in all attempts are considered in the computation of the undergraduate cumulative grade point average.

## Student Records

A permanent record, reflecting academic achievement, is maintained in the Office of the Registrar for each student who registers at the university. Information needed for the continuing evaluation of the progress of a student, including grades earned, is sent by the University Registrar to the dean of the student's college or school as it becomes available. For more information regarding student records, see "Confidentiality of Student Records" in this publication.

### Transcripts

Students may obtain transcripts of their academic records from the Office of the Registrar. There is a \$2 fee for each official transcript.

Transcripts will be released only on the signed request or release of the student concerned.

The university will not issue a transcript that reflects only a part of the student's record, nor will it make copies of transcripts on file from other colleges and universities.

### Certification of Enrollment

The Office of the Registrar supplies, on request of a currently enrolled student, certification of certain academic data concerning the records and status of the student. These certifications are used for Department of Education and scholarship forms, employment applications, and so forth. They are not to be confused with transcripts of the student's permanent academic record.

### Name Change

The student's name entered on the permanent record may be changed if the name has been legally changed and if the change is supported by court order. Changes of name on the permanent records will be made for currently enrolled students only. Diplomas may not be changed or reissued.

## Graduation

The university confers degrees and issues diplomas at the end of the fall, spring, and summer terms. Formal commencement ceremonies are held in January for fall degree candidates and degree recipients from the preceding summer, and in May for spring degree candidates.

Candidates for degrees are to file an Application for Graduation form in the degree clearance section of the

Office of the Registrar during the period of registration for the last expected term of study.

Students pay a graduation fee of \$25 at the time they first file for degree clearance. There is no fee for reapplication.

Only after application for graduation has been made can the Office of the Registrar begin processing the necessary information for final certification of graduation. Students who fail to complete all degree requirements by the end of the term for which they applied to graduate must reapply in order to graduate later.

Graduate students are advised also to consult the more detailed information about comprehensive examinations, thesis, and dissertation deadlines, etc., available from academic offices.

### Conferral of Degrees and Commencement

Only students who successfully complete degree requirements by the end of the term for which they have applied (or reapplied) to graduate are certified for conferral of a degree. In witness of the degree conferred, the permanent records of the graduates are appropriately noted with a statement of graduation and their diplomas are released.

All candidates for degrees whose academic records indicate that they can satisfy degree requirements by the end of the term for which they have applied are permitted to participate in commencement ceremonies. Students who are eligible to receive summer or fall degrees are recognized in the winter ceremony; those who appear eligible to receive spring degrees are recognized at the spring ceremony. For fall and spring degree candidates, final certification for the degree is not made until after the ceremonies have been held. Participation in a commencement ceremony does not itself constitute conferral of a degree, nor does it imply an obligation on the part of the university to award a degree before all requirements have been met and certified.

## Registration

Registration is conducted on the dates specified in the academic calendar published in detail in the *Schedule of Classes*. Students who register during advance registration are billed later. During direct registration students pay when they register. In order to register, a student must (1) be admitted to the university or be approved for enrollment for nondegree study; (2) clear any balances on the student account; (3) secure approval of a program of study from an academic adviser; (4) complete the Advisement/Registration Authorization; (5) submit registration forms to the Office of the Registrar; and (6) pay tuition and fees. More detailed information and instructions are published in the *Schedule of Classes*.

### Late Registration

Late registration begins with the first day of classes for the term and is permitted during the period provided in the academic calendar. No student will be allowed to register after those dates. Students registering during late registration must pay a fee of \$50 in addition to the other charges.

### Changes in Registration

A student who finds it necessary to add or drop a course or change a credit value (in a variable-credit course) or

grade type in a course in which he or she is already registered may make such an adjustment during the periods specified in the semester's *Schedule of Classes*.

A student may not add a course after the second week of classes for fall or spring (or the equivalent for summer), with the exception of independent reading courses or study projects or cooperative education courses, which may be added through the fourth week of classes. A student may not change a grade option after the second week of classes.

A student may withdraw from a course from the beginning of a semester until the midterm date established by the Registrar. After that, a course withdrawal will be permitted only with the approval of the dean or dean's designate of the student's school or college. The instructor's approval may be required, but in all cases the dean must confer with the instructor and inform the instructor in writing of the decision. In any case, withdrawal from courses after the midterm date should occur rarely and only in cases of well-documented emergencies beyond the student's control. A low or failing grade in the course is not grounds for a late withdrawal.

When a student withdraws from a course during the first two weeks of a semester, the course will not appear on the academic record; withdrawal thereafter is noted with a W in place of a grade. Withdrawal during a summer session is subject to the same rules, proportionally adjusted.

To effect any of these changes in registration, a Course Registration Change form must be submitted to the Office of the Registrar after the appropriate approval signature or signatures have been obtained. Detailed instructions are provided in the *Schedule of Classes* each term. Discontinuing attendance in class or notifying an instructor of a status change does not constitute an official action.

### Student Responsibility

Students assume financial and academic responsibility for each course they register for. Students are also responsible for properly registering for the course they intend to take. Attending class and completing the required work do not constitute an official registration. Refunds, cancellation of charges, and release from courses are governed by the refund and withdrawal policies stated in this publication and in the *Schedule of Classes*. Unless a course is canceled by the university, charges for it remain in effect and the student continues to be responsible for completing it unless the student drops the course or withdraws from the university.

The appropriate forms for these actions must be submitted to the Office of the Registrar. The date on which the Registrar receives the student's written notification of drop or withdrawal is the effective date on which academic action, refunds, and cancellation of charges are based. Discontinuing attendance in class or notifying an instructor of a status change does not constitute an official withdrawal or course change.

### Nondegree Student Registration

A student who does not wish or is not ready to pursue a degree program but desires to register for particular courses for which he or she is qualified may be considered by the University Programs Administration and Advising Center (UPAC) for permission to enroll as a nondegree student. Such a student receives full academic credit for

## 76 General Academic Information and Regulations

courses successfully completed. See the Nondegree Study chapter in this publication for details.

### Off-Campus Registration

The Office of Contract Programs arranges for course offerings at selected off-campus locations throughout the Washington metropolitan area. These courses provide nondegree study opportunities and can also be used in both graduate and undergraduate degree programs. Although the scheduling of off-campus courses follows the general pattern of the university calendar and time schedule, it does not necessarily conform exactly to the campus semester dates.

While students may register for most off-campus courses on-campus during regular registration, special registrations are also held at the off-campus locations. For further details, consult the Office of Contract Programs at (202) 885-3990.

### Consortium Registration

In cooperation with the Catholic University of America, Gallaudet University, George Mason University, the George Washington University, Georgetown University, Howard University, Marymount University, Mount Vernon College, Trinity College, the University of the District of Columbia, University of Maryland, and the Wesley Theological Seminary, the American University offers qualified undergraduate and graduate degree students the opportunity to enroll for courses at any of these institutions through the Consortium of Universities of the Washington Metropolitan Area. Such courses are usually limited to those not offered by or not immediately available at the American University. Credit earned through this program is considered residence credit.

Courses in the off-campus program of the George Washington University may not be taken through the consortium program by American University students, nor may students from other consortium universities take American University off-campus courses through the consortium program.

The following courses are excluded from consortium registration: Independent reading courses, independent study projects, special tutorial courses, courses offered in medicine, dentistry, nursing, or canon law, and non-credit courses (except ROTC).

To be eligible for this program, students must (1) be fully admitted degree students, (2) be actively enrolled, (3) be in good academic standing, (4) be approved by the American University dean or department chair of the field of study for which registration is requested, and (5) be approved by the Office of the Registrar. The student is responsible for securing approval at the cooperating institution.

Forms to be used for this program are available in the Office of the Registrar. American University students must follow the registration procedures published in the *Schedule of Classes* for that term and pay the tuition rate of the American University. Special fees (such as lab fees) are paid to the school where the course is offered.

Graduate degree students enrolled in one of the consortium universities or associated member colleges will be eligible for direct-borrowing cards. Applications for a consortium borrowing card are to be made at the main library of the home university.

Any eligible consortium student who registers for a course at another consortium institution automatically receives library privileges at the institution giving the course.

## Auditing

A student who wishes to attend a class but who does not wish to participate, take examinations, receive a final grade, or receive credit for the course may register as an auditor. Tuition and fees for auditors are the same as those for students registering for credit.

Faculty may establish standards of class participation and attendance for auditing that must be met if a student is to remain in audit status.

Changes to or from audit must be made before the last day to add a course.

### Undergraduate Audit Program

Qualified undergraduate students may audit up to 9 undergraduate credit hours free of charge after they have completed 120 credit hours at the American University or while enrolled in the semester in which the last course required for a degree is to be completed. Enrollees in this program must have a cumulative grade point average of 3.50 (on a 4.00 scale) on completion of 90 credit hours at the university. Registration is accomplished during the first two weeks of a semester. Courses taken under this program do not involve tuition, but any special fees (for example, a music fee) must be paid by the student.

### Alumni Audit Program

Holders of earned degrees from the university may take one nontutorial course each fall, spring, and summer semester as auditors with tuition remitted; a nominal registration fee is charged. An alumnus or alumna wishing to audit a course is limited by the availability of space in the course during the late registration period. Registration under these terms does not include such courses as independent study, laboratory courses, private music instruction, honors courses or maintaining matriculation. An alumnus or alumna who wishes to have a course reflected on his or her academic record, or who wishes to receive credit for the course, must enroll through the Registrar's Office and pay tuition at the prevailing rate.

## Withdrawal from the University

Degree-seeking students who wish to withdraw from the university must go to the Registrar's Office to complete a Withdrawal Request form, for an exit interview and counseling, and for information on the refund policies and procedures of the university.

Nondegree students who wish to withdraw from the university should complete a drop form for each course for which they are registered and submit the forms to the Office of the Registrar.

## Curricular Information

### Academic Calendar

The academic calendar is divided into fall and spring semesters (approximately fourteen weeks each) and a summer term (also approximately fourteen weeks) consisting of two seven-week sessions (evening classes), two six-

week sessions (daytime classes), a ten-week session, and a three-week session.

The last week of the fall and spring semesters is set aside for final examinations. However, the decision to give final examinations is left to the discretion of the college, school, department, or individual instructor offering the course. If no final examination is given, the course will meet for a final class during the scheduled final examination period. The time set for all final examinations is two and a half hours.

The holidays and vacations usually observed by the university are as follows: Labor Day; Thanksgiving weekend (Thursday, Friday, Saturday); Christmas Eve/Christmas Day and New Year's Eve/New Year's Day (included in the mid-year intersession break); Martin Luther King, Jr. Day; Inauguration Day (every four years); Memorial Day; and Independence Day. Spring break is the week following the spring semester midterm. Classes continue until 10:40 p.m. the evening before a holiday or vacation period.

The official calendar for each academic term is published in detail in the *Schedule of Classes*. Faculty members and students should check this publication for final information about the current academic calendar. The university reserves the right to change any published calendar. Information about last-minute changes will be distributed as widely as possible, especially through the local news media.

The Washington College of Law traditionally follows a calendar which differs somewhat from that of the rest of the university.

### Course Numbers

Each course is designated by a five-digit number. The digits to the left of the decimal point represent either the teaching unit offering the course or an area within such an academic unit: e.g. 03.xxx Anthropology; 19.xxx Economics; 07.xxx Art History. The last three numbers identify the level of the course as follows: xx.001-xx.099 = no degree credit; xx.100-xx.499 = undergraduate degree credit; xx.500-xx.599 = graduate courses to which advanced undergraduate students may be admitted; xx.600-xx.799 = graduate courses to which undergraduate students usually are not admitted.

Off-campus courses carry the letter O as a prefix to the teaching unit code. Study abroad courses also have a letter prefix to denote location.

### Credit Values

All undergraduate and graduate courses are valued in credit hours. Generally, each credit hour is equal to 50 minutes of class instruction a week.

### Course Descriptions and Syllabuses

Descriptions of individual courses are given with the course listings in this publication. Course syllabuses are available from department offices.

### Course Prerequisites

Many courses call for a minimum background of knowledge, as indicated by prerequisite courses cited in individual descriptions. Titles and numbers are those of American University courses; equivalent courses satisfactorily completed at other accredited institutions also meet prerequisite requirements by transfer credit.

Students are responsible for entering the class with the required competence. Thus, prerequisites warn students of the knowledge they are to bring with them in order to meet the expected standards of performance.

### Independent Reading and Study Courses

An Independent Reading course is defined as a course in which a student by prearrangement with an instructor reads a body of material with little formal instruction.

An Independent Study Project is defined as a course in which a student does research on a topic agreed on by the student and the instructor or engages in study deemed worthy of the student's efforts by the instructor responsible for the course.

Registration for these courses is held during the regular registration period for a semester or summer session. A student may add one of these courses until the end of the fourth week of a fall or spring semester or until the end of the second week of a summer session.

Before a student registers for an Independently supervised course, the student and faculty member must agree on and document the title, objective, scope, and credit value (one to six credit hours) of the project to be pursued. The head of the teaching unit must approve the project and the faculty member's involvement, and certify that the project does not duplicate a course being offered in the same semester that would be available to the student. If the course is to be used to fulfill University Honors Program requirements, the approval of the teaching unit's honors coordinator and the approval of the Director of the University Honors Program are required.

It is expected that the student will meet periodically (or correspond if necessary) with the instructor to review progress. Students are generally expected to complete an independently supervised course within the semester of registration. At the discretion of the instructor, however, the time limit may be extended to the end of the second term following the term in which the student registered (including summer).

Students in independently supervised courses may be assigned conventional grades or pass-fail grades, according to the agreement made with the instructor before registration. A temporary grade of IP (in progress) will be assigned by the instructor at the end of the semester in which the student registered if an extension of the time limit has been approved. The IP grade must be resolved to a final grade by the end of the second term following (including summer). Any further extension must be authorized according to the regulations governing grades of Incomplete listed under "Grading System" in this chapter.

### Community Service Learning Projects

Community service students may have the opportunity to earn credit for community service performed in conjunction with courses in which they are enrolled. In addition to at least 40 hours of approved field work, community service learning projects require an academic component related to the course with which the service project is associated. Students earn one credit for each community service learning project they successfully complete, with a maximum of three credits applied to graduation. Only the pass/fail grading option is available. Registration follows the same procedure as for independently supervised courses, above. Permission of the instructor of the course

## 78 General Academic Information and Regulations

is required. The Division of Student Life certifies community service organizations and provides orientation sessions for students.

### Class Periods

Day classes, except those on Wednesday and Saturday, ordinarily meet two days a week for seventy-five minutes a meeting. Wednesday and Saturday classes ordinarily meet once a week for two hours and thirty minutes. Some classes meet three times a week for fifty or sixty minutes a meeting.

Evening classes ordinarily meet once a week for two hours and thirty minutes or twice a week for seventy-five minutes a meeting. Classes at the 600 and 700 levels may, in some cases, meet for a total of two hours a week at the discretion of the teaching unit concerned.

Courses involving laboratory, studio, discussion groups, or workshops may vary from these schedules. Independent reading courses, study projects, internships, and similar kinds of study opportunities meet according to the special arrangement with the school, department, or faculty members concerned.

Students are advised to note carefully the meeting times and places listed in the *Schedule of Classes* for each term.

### Emergency Cancellation of Classes

Unless cancellation of classes under special circumstances is announced publicly, classes will meet. When cancellation of classes is necessary, instructors are expected to arrange for additional reading, study assignments, or class meetings to compensate for attendance time lost.

### Cancellation of Courses

Occasionally it is necessary to cancel a scheduled course because of low enrollment, the last-minute unavailability of an instructor, or other unavoidable reasons. Every effort is made to announce the cancellation before the first class meeting, but this is not always possible.

If a course is canceled, a student who does not choose to transfer to another course is automatically dropped and may receive a full refund of the tuition and fees paid for the canceled course by completing a refund request form in the Office of Student Accounts.

### Class Attendance

The university considers class attendance a matter best left to the discretion of the individual instructor. It is expected, however, that faculty members who have a particular attendance policy will announce that policy at the first few class meetings each semester.

Veterans and others receiving government benefits are reminded that the paying agency may have specific attendance policies. Details of veterans' benefits are available from the veterans' counselor in the Office of the Registrar.

## Confidentiality of Student Records

The American University complies with the Family Educational Rights and Privacy Act of 1974. In accordance with this act, the university allows students access to their official records and an opportunity for a hearing to

challenge records they find inaccurate, misleading, or otherwise inappropriate.

The university must obtain students' written consent before releasing information from their records to persons outside the university, except as provided by the act and except for certain directory information. Information may be furnished to a student's parents without written consent only with certification of the student's financial dependence. A student who does not want directory information released must notify the Office of the Registrar in writing. Forms for this purpose are available from the Registrar and should be filed within thirty days following enrollment at the university.

The university must comply with a judicial order or lawfully issued subpoena to release a student's records and will notify the student of this action.

Copies of the university's full policy statement on the confidentiality and release of student information may be obtained from the Office of the Registrar.

## Student Responsibility

Students are responsible for their behavior, academic and otherwise, at the American University. The American University expects that students, as major members of the academic community, will adhere to the highest standards of personal and academic integrity and good taste.

To protect their academic status, students should seek the appropriate approval of their academic program advisers. It is highly recommended that students keep their own records of all transactions with the university (grade reports, registration schedules and changes, incomplete forms, etc.).

It is also advisable to keep copies of all tests and papers submitted in fulfillment of coursework.

### University Liability

Faculty, students, staff, and guests are responsible for their personal property, clothing, and possessions. The university does not carry any insurance to cover losses of such articles nor does it assume any responsibility for such losses.

## Academic Integrity Code

The *Academic Integrity Code* for the American University describes standards for academic conduct, rights and responsibilities of members of the academic community, and procedures for handling allegations of academic dishonesty. Academic dishonesty as defined by the *Code* includes, but is not limited to: plagiarism, inappropriate collaboration, dishonesty in examinations (in-class or take-home), dishonesty in papers, work done for one course and submitted to another, deliberate falsification of data, interference with other students' work, and copy-right violations.

Violations of the *Academic Integrity Code* are treated seriously, with special attention to repeat offenders. After a second determination of guilt is established through formal review by a major teaching unit, a student will be suspended or dismissed.

Penalties for an academic offense may include one or more of the following: resubmission of the work in question, submission of additional work for the course in which



the offense occurred, a lowered grade or loss of credit for the work found to be in violation of the Code, a failing grade of F or ZF for the course in which the offense occurred, denial of credit for the course in which the offense occurred, suspension for one or more academic terms, including the term in which the offense occurred, and dismissal (for a specified term or permanently) from the university.

By registering as a student at the American University, all students acknowledge their awareness of the *Academic Integrity Code*. Students are responsible for becoming familiar with their rights and responsibilities as defined in the Code and are responsible for knowing the requirements for their particular courses (regarding such issues as collaborative work, use of study aids, or take-home examinations). Students are responsible for learning the conventions of documentation and acknowledgement of sources required in academic discourse.

Copies of the *Academic Integrity Code* are available from the Office of the University Registrar.

## Rights, Responsibilities, and Code of Conduct

As adopted by the University Senate at its February 5, 1975 meeting and with the concurrence of the Provost, February 18, 1975. Revised 1986, 1989, 1991, and 1993.

### Preamble

Members of the American University Community live, work, and study together in an institutional framework in pursuit of truth and the dissemination of knowledge. Freedom of inquiry and intellectual endeavor can flourish only in a community in which the participants are united in their mutual search for intellectual growth.

The pursuit of truth in a setting of free inquiry requires an institutional framework in which each member of the university community must recognize and be assured of the academic freedom and the personal rights and liberties of all the members of the community—for themselves and for each other. The preservation of academic freedom and personal rights and liberties in the fullest sense of those expressions are the responsibilities of each and every member of the community—in a real sense these freedoms and responsibilities are indispensable to the university community.

If the purposes of the university and its community are to be realized and advanced, the rights, responsibilities, and reasonable standards of conduct essential to a university community must be set forth.

The Rights, Responsibilities, and Code of Conduct of The American University hereinafter promulgated and set forth by the University Senate with the approval of the President and the Provost are established for the American University community.

### Part I: Rights and Responsibilities

1. No member of the university community shall be deprived of academic freedoms, personal rights, and liberties without due and fair processes of applicable university regulations.

2. No disciplinary sanctions may be imposed upon any member of the university community under authority of the university without fair and due process provided.

### Part II: Code of Conduct

Misconduct under this code for which the students are subject to university discipline is defined as follows:

A. Physical abuse of any person, including, but not limited to, sexual assault and abuse, on university premises or at university sponsored events or functions.

B. Conduct which threatens or endangers the health or safety of any person on university premises or at university sponsored events or functions.

C. Theft or unauthorized taking of university property or other property on university premises.

D. Possession of stolen or unauthorized property on university premises or at university sponsored events or functions.

E. Willful, wanton, or reckless damage to university premises or property, or other property on university premises.

F. In nonacademic university matters, dishonesty or knowingly furnishing false information.

G. Fraud, forgery, alteration, or unauthorized use of documents, university records, or instruments of identity with the intent to defraud or deceive.

H. Possession of fraudulent, forged, or altered instruments of identification on university premises or at university sponsored events or functions.

I. Intentional obstruction or disruption of teaching, research, administration, disciplinary proceedings, or other university activities, including public service functions and other authorized activities on university premises.

J. Tampering, unauthorized or fraudulent use of campus telephones or access codes, university computers, network systems, or computer files as defined by university policy.

K. Entry or attempt to enter without lawful authority any dwelling, building, or facility on university premises, against the will of the lawful occupant or of the person lawfully in charge thereof, or being therein or thereon, without lawful authority to remain, and refusing to quit the same on demand of the lawful occupant or of the person lawfully in charge thereof.

L. Failure to comply with published university policy or with directions of university community officials authorized and acting in performance of their duties.

M. Adjudicated violations of District of Columbia and federal law (including acts declared unlawful relating to narcotic drugs, dangerous drugs, alcoholic beverages, and gambling) on university premises and in university residence halls.

N. Keeping, using, possessing, selling, or distributing of any firearms, fireworks, explosives, illegal drug paraphernalia, or dangerous weapons on university premises or in university residence halls or at university sponsored functions; or any other materials or substances which are prohibited by law with the sole exception of law enforcement officials duly authorized by law to possess firearms for the performance of their duties.

O. Alcohol and drug violations as defined by university policy.

## 80 General Academic Information and Regulations

P. Gambling or other illegal or unauthorized games or contests of chance, on university premises and in university residence halls or at university sponsored functions.

Q. Unauthorized soliciting or canvassing, by any individual, group, or organization on university premises or in university residence halls.

R. Unauthorized use of the university's corporate name, which is the property or the university, by any person, persons, or organizations.

S. Failure to be fully responsible for the behavior of guests, on university premises or in university residence halls.

T. Harassment or intimidation.

U. Hazing as defined by university policy.

V. Violations of published rules governing the university residence halls.

### Regulations for Student Conduct in Residence Halls

The Regulations for Student Conduct in The American University Residence Halls are based on the American University Code of Conduct, and are incorporated as an addendum to that document by university policy. The regulations are printed in their entirety in the 1994-95 Student Handbook, which can be obtained through the Office of the Dean of Students, Mary Graydon Center 220, (202) 885-3300.



Dean Betty Bennett, College of Arts and Sciences, presents an award to a winner in the annual Mathematics Awareness Day problem-solving competition.

# The College of Arts and Sciences

**Dean Betty T. Bennett**

**Associate Dean for Undergraduate Affairs**  
**Kay Mussell**

**Associate Dean for Graduate Affairs Russell Stone**

**Associate Dean for Budget and Administration**  
**Kathleen Kennedy-Corey**

**Academic Counselors Carl E. Cook, Carole Giltz,**  
**Earl W. Redding**

The mission of the College of Arts and Sciences is to inspire and invigorate the creative potential of students and faculty to perceive, conceptualize, and act. In pursuing these goals, we are dedicated to preserving civilization's accumulated accomplishments as expressed through the arts, humanities, sciences, and social sciences. We are further dedicated to expanding knowledge through the original contributions of faculty and students. In developing the professional applicability of our programs, we attest to and demonstrate our immediate relevance to the larger world.

Members of the College of Arts and Sciences community work collaboratively to achieve their academic, professional, and personal objectives. In this spirit, the college has established a proud tradition of combining outstanding teaching with research excellence, through which we freely explore the past and present in order to better shape the future. Students learn to examine Western and non-Western cultures in their many aspects; to appreciate scientific inquiry; to master written and oral expression; to develop the critical ability to analyze and synthesize information; and to build an understanding of the moral and ethical dimensions that should inform all individual and collective decision making. Working with faculty and peer mentors, as well as with professional academic counselors, students select courses, majors, and programs of study to achieve these goals.

The college takes particular pride in the broad range of its programs and in its interactive approach to learning. Our twenty units include: the departments of Anthropology, Art, Biology, Chemistry, Computer Science and Information Systems, Economics, Health and Fitness, History, Language and Foreign Studies, Literature, Mathematics

and Statistics, Performing Arts, Philosophy and Religion, Physics, Psychology, and Sociology; the School of Education; and programs in American Studies, Jewish Studies, and Women's Studies. We offer master's programs in seventeen fields, and doctorates in nine fields. Eighty-four percent of the faculty hold doctorates; the remainder hold appropriate terminal degrees in their disciplines. The faculty's achievements are also reflected in their strong record of publications, grants, and scholarly awards in teaching and research. Our varied and rigorous curricular offerings reaffirm the values and ideals of traditional, comprehensive arts and sciences education.

The College of Arts and Sciences draws on the educational resources of Washington, D.C.—social, cultural, artistic, and scientific—that bring a unique dimension to intellectual inquiry. These include the John F. Kennedy Center for the Performing Arts, the Library of Congress, the Smithsonian Institution, the National Academy of Sciences, the National Aeronautics and Space Administration, the National Archives, the World Bank, and foreign embassies. Through off-campus visits, distinguished lecturers, and field experiences such as co-ops and internships, the college creates a "Washington Connection" that enhances traditional classroom learning. These experiences outside of the classroom help students discover how liberal arts perspectives enable them to create a broadened vision and understanding as they acquire the knowledge and skills appropriate to the fulfillment of life as responsible and educated citizens of the world.

## Faculty

The College of Arts and Sciences has a distinguished teacher-scholar faculty of some 264 full-time professors and approximately 268 adjunct professors. Experts in their own fields, they have included ambassadors, advisers to presidents, world-renowned performers, national press figures, distinguished scientists, recognized artists and composers, pioneers in special education and learning theories, and consultants to major organizations, corporations, and even nations. Each year the college invites

professors from other institutions, American and foreign, as well as artists in residence, to join the faculty.

## Undergraduate Study

### Academic Advisement

The college challenges students to assume substantial responsibility for defining their educational goals, yet provides careful professional guidance to help them respond to the challenge. Undergraduates plan their academic programs with faculty advisers or academic counselors according to their interests, vocational plans, and academic maturity. Before they enroll in classes, first-semester freshmen choose courses with the assistance of a detailed curriculum guide. During freshman orientation, students are assigned faculty mentors who advise them until they choose their majors, usually by the end of the sophomore year. After students formally declare their majors, they are advised by faculty advisors from their major departments. Transfer students go to the departments of their intended majors for academic advisement. If undecided on a major, transfer students are advised by a counselor in the Office of the Dean. Any student needing additional assistance from an academic counselor or dean of the College of Arts and Sciences should make an appointment through the receptionist in the Gray Hall lobby (202-885-2440).

### Foreign Language

The College of Arts and Sciences encourages students to gain proficiency in at least one foreign language. It is natural for students embarking on a career in international relations, study of the humanities, specialization in minority groups in the United States, and those with many other interests to concentrate on language study. Graduate study will often require proficiency in one or more foreign languages.

### Bachelor of Arts in Liberal Studies

A Bachelor of Arts with a major in Liberal Studies is offered by the College of Arts and Sciences in conjunction with the Office of Return-to-School Programs. The degree program is designed to serve the educational needs of adults who seek professional or personal advancement through either full- or part-time study. Advisement for students enrolled in the program is provided by the Office of Return-to-School Programs and by the faculty in the appropriate academic departments. (See also the Adult and Continuing Education chapter in this catalog.)

### Associate in Arts Degree

Some students do not or cannot remain in college for four years, yet desire to complete a degree program. This situation, along with the development of the junior college, has contributed to the popularity of the Associate in Arts degree, which may be awarded after successful completion of two years' study or the equivalent. To receive the associate degree, the student must fulfill the University Requirements in College Writing and College Mathematics and the General Education Requirements for associate degrees, and must accrue a total of 60 credit hours with a cumulative grade point average of 2.00 (on a 4.00 scale) or higher. (For more information, see the Continuing Studies chapter in this catalog.)

### Majors

By the end of the sophomore year, if not before, CAS students are expected to declare an academic major. In this field the student pursues study in depth and synthesizes academic knowledge. Major programs are described under departmental sections of this chapter. A student should become familiar with departmental requirements and regulations as stated in this publication and on check sheets available in department offices. When making a formal declaration of major, students should ask to be assigned a major academic adviser who will supervise their studies until graduation. Students interested in the natural sciences, mathematics, music, and art need to take specific courses in the freshman year if they intend to complete a degree in eight semesters. Such students should declare their interests as soon as possible and seek explicit counseling from the appropriate department.

### Interdisciplinary Major

This program permits College of Arts and Sciences undergraduates to complete an interdisciplinary major according to their needs, abilities, and interests. A program is formulated with the advice and approval of three faculty members from disciplines relevant to the student's defined emphasis, and is subject to the review and approval of the dean.

The Initiative in such degrees lies with the student. It is the student who is responsible for determining the concept or theme on which the program is to center. With the three faculty members, the student determines the requirements of the chosen concentration and identifies a sequence of course work that fulfills the program's objectives. The program must be formulated in a written statement no later than the first semester of the junior year. For more information, refer to the Interdisciplinary Degree Programs chapter in this publication.

### Minors

Undergraduate students may earn a minor in most departments and programs of the College of Arts and Sciences. For all minors offered by the College of Arts and Sciences at least 9 credit hours of the stated requirements must be taken in residence at the American University. (See the Undergraduate Study chapter in this publication. For descriptions of specific minor programs, see the Individual departmental listings in this chapter.)

### Preprofessional Programs

The college offers preprofessional curricula in engineering, law, medicine and dentistry, social work, and theology.

Students interested in a graduate program in social work often major in one of the social sciences, with particular emphasis on sociology and psychology.

Pre-theology students find the university's relationship with the Wesley Theological Seminary beneficial, and the Center for Campus Ministries directs an innovative program of religious activities that complements preprofessional studies in religion.

The preprofessional programs in engineering, law, and medicine and dentistry are described in separate sections of this chapter.

## Consortium

Affiliation with the twelve-member Consortium of Universities of the Washington Metropolitan Area greatly expands the educational horizon for the student. (See also the Introduction in this publication.)

## Living-Learning Center

Traditionally, classrooms have been used for learning and dormitories have been used for living. The Living-Learning Center integrates these two experiences into an enriched education program for freshmen who live on an Anderson Hall floor designated for students of the center and upper-class honors students.

The small classes in the center's suite of rooms and the informal atmosphere of the dormitory encourage group interaction and a close relationship between students and faculty. Study facilities in the center provide participants with a convenient and comfortable place to study and meet friends. A student takes two courses offered by the center and selects other courses from those offered by the teaching units of the college or other schools.

## Internships and Cooperative Education

Internship and cooperative education programs, which engage the student in practical experience in its most intimate terms, support learning and on-the-job training. Interns work in many organizations in both the public and the private sectors in the Washington area. The growing number of internships in the college is a convincing testimony not only to their popularity, but also to their success. For further information on cooperative education, see "Cooperative Education" in this publication.

## Study Abroad

A variety of study abroad opportunities are available to students in College of Arts and Sciences. For more information see the Special University Programs chapter in this catalog or consult the World Capitals Program office in the Dunblane House, Tenley Campus (202-895-4935, -4937).

## Graduate Study

The graduate programs of the College of Arts and Sciences are directed toward the development of highly competent scientists, sensitive teachers, and critical scholars. To achieve this objective, the college provides an academic setting and climate favorable to the free interchange of ideas and the disciplined exploration and testing of the most seminal of these notions. The primary function of this collaborative interchange between mature and maturing scholars is to enhance the latter's understanding of, and sensitivity to, the spirit and styles of intellectual problems of their own choosing and to seek their solution. These individually-defined problems and the creative inquiry they generate are the ultimate influence for the fashioning of each student's program of graduate study in the college. See the specific program descriptions under individual departments of the college below. Also, see the Graduate Study chapter in this publication.

# American Studies

**Director** John Willoughby

**Full-Time Faculty**

**Professor** K. Mussell, B. Williams

**Assistant Professor** E. Smith

Faculty from other schools and departments of the university also teach in the program.

The American Studies Program offers students the opportunity to explore American culture through many paths, including America's intellectual traditions, creative arts, popular media, material culture, ethnic variety, folklore, social structure, and social change. Students learn to draw together the tools and insights of other disciplines to capture the complexities of American society, and to discover what Americans share as well as how they differ. In addition to foundation courses in the program, students choose one area of particular interest to them. Some decide to concentrate in a field such as literature, business, journalism, anthropology, history, or art. Others create a more personalized specialty such as women's studies, African-American studies, or urban affairs.

All students learn to use and appreciate Washington's American studies research centers and cultural resources, including the Library of Congress, the National Archives, the Smithsonian Institution, and the city's many museums. Many study the city itself. Most work at internships during their senior year in such places as Congress, the Kennedy Center, the Smithsonian, or Common Cause.

The goals of the American Studies Program are to help each student develop an area of expertise and to build the skills for thinking critically, writing clearly, and untangling the relationship between large cultural forces and ordinary peoples' life experiences. American Studies graduates work in such diverse fields as journalism, broadcasting, local or national government, foreign service, teaching, museums, private business, and social services. Many students go on to graduate study or to law school.

## B.A. in American Studies

### Admission to the Program

Formal admission to the major requires a grade point average of 2.50 (on a 4.00 scale) in two courses related to the major.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

## Major Requirements

- A total of 43 credit hours with grades of C or better

## Course Requirements

- 02.202 American Dream/American Life /A, S (3)
- 02.400 Interpreting American Culture (4)
- 03.201 Cultural Anthropology /S (3)
- Nine credit hours from the following:  
23.210 Survey of American Literature I (3)  
23.211 Survey of American Literature II (3)  
29.205 America's Quests: the U.S. to 1865 /A 2:2 (3)  
29.206 The U.S. from Emancipation to World War II (1865-1945) (3)
- Twelve credit hours of courses dealing with some aspect of American life selected from a single department or related departments
- Nine additional credit hours in American studies (02.xxx) courses at the 300 level or above, excluding independent study and internships
- One of the following as a senior project:  
02.410 Senior Thesis I (3)  
02.411 Senior Thesis II (3)  
02.491 Internship in American Studies (3-6)

## University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Minor in American Studies

### Requirements

- 02.202 American Dream/American Life /A, S (3)
- 02.400 Interpreting American Culture (4)
- 03.201 Cultural Anthropology /S (3)
- Twelve credit hours in American studies (02.xxx) at the 300 level or above

# Anthropology

**Chair** Geoffrey Burkhart

## Full-Time Faculty

**Professor** J.J. Bodine, K. Halpern (Emerita), G.L. Harris (Emeritus), R.H. Landman (Emerita), W.L. Leap, C.W. McNett, Jr., H.C. Moore (Emeritus), B. Williams

**Associate Professor** G.L. Burkhart, R.J. Dent, D.B. Koenig

**Assistant Professor** L. Gill

## Research Faculty

**Research Professor** B. Maday

**Applied Anthropologist in Residence** D. Gross, G. Schaff, B. Hackett

Anthropology explores exciting questions about what is both universal and unique in the human condition. Anthropology, by its very nature, is a consciously nonsexist, nonracist, and nonelitist discipline; long ago anthropologists learned how to appreciate the variety of social and cultural systems in the world and the importance of looking at the human experience from various perspectives.

Different types of anthropologists explore these issues from different points of view. Cultural and social anthropologists, for example, untangle the richness of economic patterns, social systems, arts, and values of peoples around the world. Archaeologists help communities document and preserve the full detail of their history and prehistory. Physical anthropologists explore the dynamics of human evolution and study nutrition, health, and illness in their cultural contexts. Linguists examine different languages to see how linguistic structures affect speakers' perceptions of the world around them.

The anthropology program at the American University introduces students to research in these and other areas while involving students in training programs and on-the-job experiences in which research can be applied to practical tasks. Internships within government or private agencies can be arranged for qualified students at all degree levels. Washington, D.C. is an international city, replete with museums, libraries, embassies, and other sources for cross-cultural research. Anthropology faculty are actively involved in their own basic and applied research tasks, and students are included in project activities whenever possible.

Undergraduates will find it easy to coordinate a major or minor in Anthropology with degree requirements in other teaching units. Graduate students may choose between a regular M.A., an applied M.A., or the doctoral program, depending on their background, career interests, and professional goals.

## B.A. in Anthropology

### Admission to the Program

Formal admission to the major by the department's undergraduate studies director requires a cumulative grade point average of 2.00 (on a 4.00 scale) and a grade

point average of 2.00 or higher in two anthropology courses.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 42 credit hours with grades of C or better
- If a student's career plans require skill in a foreign language, a cluster of courses in a second discipline, field experience, or some other special preparation, arrangements will be made in discussion with the undergraduate adviser.

### Course Requirements

- 03.251 Perspectives in Cultural Anthropology (3)
- 03.252 Human Origins (3)
- 03.253 Introduction to Archaeology (3)
- 03.254 Language and Culture (3)
- 03.339 Culture Area Analysis/S (3)
- 03.445 Developments in Anthropological Theory (3)
- 03.450 Senior Seminar (3)
- 03.552 Anthropological Research Methods (3)
- Four courses chosen from the following group:  
*Comparison and Analysis*
- 03.200 City as Community /S 4:2 (3)
- 03.210 Roots of Racism and Interracial Harmony /S 3:2 (3)
- 03.215 Sex, Gender, and Culture /S 3:2 (3)
- 03.220 Living in Multicultural Societies /S 3:2 (3)
- 03.225 Language and Human Experience /A 1:2 (3)
- 03.331 Human Variation (3)
- 03.335 Culture and the Self (3)
- 03.336 Social Structure (3)
- 03.339 Culture Area Analysis /S (3) (if taken more than once, topic must be different)
- 03.342 Women and Work (3)
- 03.530 Special Topics (3) (if taken more than once, topic must be different)
- 03.430 Magic, Witchcraft, and Religion /A (3)
- 03.431 Taboos (3)
- 03.498 Senior Thesis in Anthropology (3-6)
- 03.531 Archaeology (3) (may be taken for credit more than once if topic is different)
- 03.532 Culture Change (3)
- 03.534 Economic Anthropology (3)
- 03.535 Ethnicity (3)
- 03.537 Topics in Language and Culture (3)

- Two courses, one from each of the following two groups:  
*Specialized Methods and Techniques*
- 42.202 Basic Statistics (4)
- 42.502 Introduction to Mathematical Statistics (3)
- 03.531 Archaeology: Artifact Analysis (3)
- 03.550 Ethnographic Field Methods (3)
- 03.553 Data Banking and Multivariate Techniques (3)
- 03.560 Summer Field School: Archaeology (3-9)
- Practical and Applied*
- 03.392 Cooperative Education Field Experience (3-9)
- 03.491 Internship in Anthropology (1-6)
- 03.542 Principles of Applied Anthropology (3)
- 03.543 Anthropology of Development (3)
- 03.544 Topics in Applied Anthropology (3)

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department, including a Senior Honors Thesis and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Minor in Anthropology

### Requirements

- 03.251 Perspectives in Cultural Anthropology (3)
- Two courses from the following:  
03.252 Human Origins (3)  
03.253 Introduction to Archaeology (3)  
03.254 Language and Culture (3)
- Three additional courses chosen at the 300 level or higher in consultation with a member of the departmental faculty

## Minor in Applied Anthropology

### Requirements

- 03.251 Perspectives in Cultural Anthropology (3)
- 03.542 Principles of Applied Anthropology (3)  
(03.542 is to be taken after at least 6 credit hours of anthropology courses have been completed.)
- An additional 12 credit hours, at least 9 of which must be at the 300 level or above, chosen from at least two subfields (socio-cultural, linguistic, archaeological, physical) in consultation with an adviser.

## Combined B.A./M.A. Program in Anthropology or Applied Anthropology

This program is primarily designed for transfer students who enter the American University in their junior year with substantial background in anthropology. It al-

lows eligible students to complete the B.A. in Anthropology and the M.A. in Anthropology or M.A. in Applied Anthropology after three years (six semesters) of uninterrupted study. Students with interest in applied anthropology or in a field related to anthropology (e.g. law, social services, government service, public health) will find this degree combination especially appropriate for preprofessional training.

### Admission to the Program

The standards for admission to the undergraduate major must first be satisfied. Undergraduate majors ordinarily apply for admission to the combined B.A./M.A. program at the end of their junior year. Admission decisions follow the procedures used to evaluate graduate applicants to the M.A. programs. Interest in this degree combination should be discussed with members of the faculty before formal application is begun.

### Requirements

- All requirements for the B.A. in Anthropology
- All requirements for either the M.A. in Anthropology or the M.A. in Applied Anthropology

Students may use 6 credit hours of course work at the 500-level or above in anthropology to satisfy the requirements for both degrees.

## M.A. in Anthropology

### Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. Admission is based on academic record, two academic letters of reference, and an example of the applicant's work, e.g., a term paper. GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- One written examination in general anthropological theory and method (03.006)
- A thesis or two substantial research papers prepared in conjunction with advanced courses or research seminars, and approved by a committee of two faculty members. Final approval by the chair is required.

### Course Requirements

- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
- 03.637 Proseminar: Anthropological Linguistics (3)
- 03.797 Master's Thesis Seminar (6) (thesis option)

**Note:** A student from another discipline may take a comprehensive examination in anthropology (03.022 Cultural Analysis) with a minimum of 9 credit hours in anthropology.

## M.A. in Applied Anthropology

### Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. Admission is based on academic record, two academic letters of reference, and an example of the applicant's work, e.g., a term paper. GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- One written examination stressing the relevance of general anthropology to applied work (03.008)
- A thesis or two substantial research papers prepared in conjunction with advanced courses or research seminars, and approved by a committee of two faculty members. Final approval by the chair is required.

### Course Requirements

- 03.532 Culture Change (3)
- 03.542 Principles of Applied Anthropology (3)
- 03.543 Anthropology of Development (3)  
or
- 03.544 Topics in Applied Anthropology (3)
- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3)  
or
- 03.637 Proseminar: Anthropological Linguistics (3)
- 03.691 Internship in Anthropology (3)  
or
- Equivalent application of anthropological method and theory to practical problem-solving in the student's area of interest
- 03.797 Master's Thesis Seminar (6) (thesis option)

## Ph.D. in Anthropology

### Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. Admission is based on academic record, two academic letters of reference, and an example of the applicant's work, e.g., a term paper. GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

### Degree and Major Requirements

- A total of 72 credit hours of approved graduate work
- Two languages or one language and statistical or computer analysis as a tool of research.
- Four comprehensive examinations:  
Examinations include 03.006 Anthropological Method and Theory; one in a main field (03.016 Ethnological Methods, 03.017 Archaeological Methods, or 03.018 Linguistic Methods); one in an approved elective sub-



field of specialization (03.020); and one in an approved area of concentration (03.021). At least two examinations must be written and at least one must be oral.

- A dissertation and an oral defense
- Field work is a component of dissertation research except in very unusual cases.

Students entering the program with an M.A. in Anthropology earned elsewhere must complete at least 30 credit hours of course work and no more than 12 credit hours of dissertation credit in residence.

### Course Requirements

- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
- 03.637 Proseminar: Anthropological Linguistics (3)
- 03.799 Doctoral Dissertation Seminar (6)

*Note:* A student in another discipline may take a comprehensive examination in anthropology with a minimum of 12 credit hours in anthropology. Anthropology students may take one outside examination if they take 12 hours of course work in a second approved discipline.

## Art

**Chair** Don Kimes

### Full-Time Faculty

**Professor** N. Broude, I. Eno (Emerita), M.D. Garrard, A.S. Keck (University Emeritus), S. Lewis, L. Penay (Emeritus), B.L. Summerford (University Professor Emeritus)

**Associate Professor** L. Brabanski (Emeritus), M. Graham, R. M. Haynie, M. Hirano, D. Kahn, D. Kimes, M. Oxman, C. Ravenal, C.A. Story

The Department of Art encompasses the creative activities of the fine arts (painting, sculpture, and printmaking), the artistic applications of design, and the theoretical and historical concerns of art history. These complementary programs function together, so that the student gains not only depth of knowledge in a chosen specialty but also the breadth of experience that yields understanding of artistic traditions and values.

A faculty of exhibiting artists and practicing designers and strong student programs focused on giving students facility with materials and familiarity with visual concepts make the art department, in effect, an art school within a university. In addition to the full-time faculty, the studio program's Center of Excellence brings an outstanding series of nationally and internationally distinguished visiting artists-in-residence to the department each year. Since 1987 this program has included Katherine Porter, Fritz Scholder, Andrew Forge, Kenneth Noland, Catherine Murphy, Joan Snyder, Nathan Oliveira, George McNeil, Mercedes Matter, Jane Wilson, Charles Cajori, Rosemarie

Beck, Wayne Thiebaud, Gregory Amenoff, Jake Bertlot, Sam Gilliam, Judy Pfaff, Rackstraw Downes, and others.

An equally strong art history faculty and curriculum give the art history major a solid grounding in art as a historical and humanistic discipline in an environment that provides continuing contact with art in the making. Because of the university's location in one of the major art capitals of the world and its proximity to Washington's great museums and art collections, all programs afford students the advantage of immediate experience with art masterpieces of the past and present.

An important objective of the department is to prepare students for careers in the arts. Given the sound theoretical and technical bases of our programs, our graduates find that a wealth of individual career opportunities awaits them. Depending on the specific discipline pursued, they have become professional painters and sculptors, teachers, critics, graphic designers, illustrators, and exhibition design specialists. In addition, careers in museum and gallery work, teaching, visual resources, and historic preservation are available to qualified art historians.

## B.A. in Art History

### Admission to the Program

Formal admission to the major requires satisfactory completion (C or better) of 12 credit hours of art history courses and departmental approval.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 54 credit hours with grades of C or better
- Twenty-four of the last 30 credit hours in the major program must be taken in residence, 18 hours of which must be in art history and 6 in related fields or studio

### Course Requirements

- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to the Present (3)
- 07.500 Approaches to Art History (3)
- Three credit hours in each of four periods:  
*Ancient*  
07.302 Roman Art (3)  
07.396 An appropriate Selected Topics (.396) course may be used to fulfill this requirement with permission of the student's adviser (3)

## 88 The College of Arts and Sciences

- 07.520 Seminar in Art History (3) (appropriate topic)  
07.596 An appropriate Selected Topics (.596) course may be used to fulfill this requirement with permission of the student's adviser (3)

### Medieval

- 07.303 Medieval Art (3)  
07.308 Gothic Art (3)  
07.396 An appropriate Selected Topics (.396) course may be used to fulfill this requirement with permission of the student's adviser (3)  
07.520 Seminar in Art History (3) (appropriate topic)  
07.596 An appropriate Selected Topics (.596) course may be used to fulfill this requirement with permission of the student's adviser (3)

### Renaissance

- 07.205 Art of the Renaissance /A 2:2 (3)  
07.316 The Architecture of Humanism 1400–1700 (3)  
07.396 An appropriate Selected Topics (.396) course may be used to fulfill this requirement with permission of the student's adviser (3)  
07.501 Baroque Painting (3)  
07.513 Renaissance Painting: Giotto to Bellini (3)  
07.514 Renaissance Painting: Leonardo to Caravaggio (3)  
07.520 Seminar in Art History (3) (appropriate topic)  
07.596 An appropriate Selected Topics (.596) course may be used to fulfill this requirement with permission of the student's adviser (3)

### Modern

- 07.210 Modern Art: Nineteenth and Twentieth Centuries /A 1:2 (3)  
07.305 Aspects of American Art (3)  
07.318 Nineteenth and Twentieth Century Architecture (3)  
07.331 Painting and Sculpture in the United States to 1900 (3)  
07.332 Painting and Sculpture in the United States: 1900 to the Present (3)  
07.333 American Architecture until 1870 (3)  
07.334 American Architecture: 1870 to the Present (3)  
07.396 An appropriate Selected Topics (.396) course may be used to fulfill this requirement with permission of the student's adviser (3)  
07.508 Painting: Rococo through Impressionism (3)  
07.510 Painting: Post-Impressionism to Expressionism (3)  
07.511 Painting: Cubism to the Present (3)  
07.520 Seminar in Art History (appropriate topic)  
07.596 An appropriate Selected Topics (.596) course may be used to fulfill this requirement with permission of the student's adviser (3)
- Fifteen additional credit hours in art history: At least two of the art history courses taken to fulfill requirements must be at the 500 level.
  - Six hours in studio from the following:  
05.100 Art: The Studio Experience /A 1:1 (3)  
05.205 Drawing: Responding to Vision /A 1:2 (3)  
05.210 Painting: Color, Form, Expression /A 1:2 (3)

- 05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)  
05.320 Creative Painting (3)  
05.340 Sculpture (3)  
05.360 Drawing (3)  
05.363 Introduction to Printmaking (3)

- Twelve credit hours at the 300 level or above from one of the following fields: American studies, anthropology, history, literature, music, or philosophy  
Course selections must be related to the major and to each other and must be approved by the faculty.

**Note:** Students contemplating graduate study in art history are advised to attain a reading knowledge of French, Italian, or German to the intermediate level (or equivalent of 12 credit hours at the college level).

## Special Opportunities

A major program track in American Art/American Studies is possible. It requires at least a 12 credit hour concentration in American art and a 12 credit hour related course requirement in American studies. Internships in local agencies, museums, galleries, and libraries are permitted with departmental approval, but are limited to 3 credit hours unless taken as electives.

## University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Design

### Admission to the Program

Formal admission to the major requires satisfactory completion (C or better) of 12 credit hours of design courses and departmental approval.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 54 credit hours with grades of C or better

- Twenty-four of the last 30 credit hours in the major program must be taken in residence, of which 18 hours must be in design and 6 in studio or art history.

### Course Requirements

- 05.220 Design: Color Theory and Practice /A 1:2 (3)
- 05.225 Design: Form, Space, Vision /A 1:2 (3)
- 05.348 Design Techniques I (3)
- 05.350 Typography: Theory and Practice (3)
- 05.351 Design Techniques II (3)
- 05.353 Typography: Color and Design (3)
- 05.356 Advanced Design I (3)
- 05.357 Advanced Design II (3)
- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to the Present (3)
- 17.430 Basic Photography (3)
- Six credit hours from the following:
  - 05.310 The History of Graphic Design (3)
  - 05.349 Design: Computer Graphics I (3)
  - 05.354 Production for Graphic Designers (3)
  - 05.359 Illustration (3)
  - 05.392 Cooperative Education Field Experience (3-9)
  - 05.396 An appropriate Selected Topics (.396) course may be used to fulfill this requirement with permission of the student's adviser (3)
  - 05.491 Internship (3) (with approval of department)
- Nine credit hours in studio from the following:
  - 05.100 Art: The Studio Experience /A 1:1 (3)
  - 05.205 Drawing: Responding to Vision /A 1:2 (3)
  - 05.210 Painting: Color, Form, Expression /A 1:2 (3)
  - 05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)
  - 05.320 Creative Painting (3)
  - 05.340 Sculpture (3)
  - 05.360 Drawing (3)
  - 05.363 Introduction to Printmaking (3)
  - 05.364 Printmaking: Woodcut and Surface Print (3)
- Six additional credit hours in art history

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Studio Art

### Admission to the Program

Formal admission to the major requires satisfactory completion (C or better) of 12 credit hours of studio courses and departmental approval.

### Tracks

Painting, Sculpture, and Printmaking

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 54 credit hours with grades of C or better
- Twenty-four of the last 30 credit hours in the major program must be taken in residence (18 hours must be in studio, 6 may be in art history)

### Course Requirements

- 05.100 Art: The Studio Experience /A 1:1 (3)
- 05.205 Drawing: Responding to Vision /A 1:2 (3)
- 05.210 Painting: Color, Form, Expression /A 1:2 (3)
- 05.360 Drawing (6)
- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to Present (3)
- Eighteen credit hours including 12 credit hours from one and 6 credit hours from another of the following areas of concentration (*Note:* Any of the courses listed below may be repeated for credit):

#### Painting

05.320 Creative Painting (3)

#### Sculpture

05.340 Sculpture (3)

#### Printmaking

05.364 Printmaking: Woodcut and Surface Print (3)  
05.520 Techniques of Etching (3)  
05.363 Introduction to Printmaking (3)

- Nine additional credit hours from the following:
  - 05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)
  - 05.320 Creative Painting (3)
  - 05.340 Sculpture (3)
  - 05.344 Ceramics (3)
  - 05.360 Drawing (3)
  - 05.363 Introduction to Printmaking (3)
  - 05.364 Printmaking: Woodcut and Surface Print (3)
  - 05.520 Techniques of Etching (3)
  - 05.533 Materials and Techniques of Painting (3)
  - 05.560 Drawing (3)
- Six additional hours of art history

## University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Bachelor of Fine Arts

### Admission to the Program

Formal admission to the program is subject to the approval of a portfolio, evaluation of the academic record, and a personal interview. Admission depends entirely on faculty action resulting from this review. Consideration for the B.F.A. is permitted only after 18 credit hours or three semesters of studio work have been completed at the American University but before beginning the senior year.

### Tracks

Painting, Sculpture, and Printmaking

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 72 credit hours with grades of C or better

### Course Requirements

- 05.100 Art: The Studio Experience /A 1:1 (3)
- 05.205 Drawing: Responding to Vision /A 1:2 (3)
- 05.210 Painting: Color, Form, Expression /A 1:2 (3)
- 05.360 Drawing (6)
- 05.560 Drawing (3)
- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to the Present (3)
- Twenty-one credit hours from one of the following concentrations (*Note: Any of the courses listed below may be repeated for credit:*)

#### Painting

05.320 Creative Painting (2-3)

#### Sculpture

05.340 Sculpture (2-3)

#### Printmaking

- 05.363 Introduction to Printmaking (3)
- 05.364 Printmaking: Woodcut and Surface Print (3)
- 05.520 Techniques of Etching (3)
- Twelve credit hours in one other concentration, or 6 credit hours in each of the other two concentrations
- Nine additional hours from the following:
  - 05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)
  - 05.320 Creative Painting (3)
  - 05.340 Sculpture (3)
  - 05.344 Ceramics (3)
  - 05.360 Drawing (3)
  - 05.363 Introduction to Printmaking (3)
  - 05.364 Printmaking: Woodcut and Surface Print (3)
  - 05.533 Materials and Techniques of Painting (3)  
(this course is required for students with a concentration in painting)
  - 05.520 Techniques of Etching (3)
  - 05.560 Drawing (3)
- Six additional credit hours of art history

*Note:* Students who contemplate completing a double major will not be able to complete a B.F.A. program with 120 credit hours.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Minor in Art History

### Requirements

- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to Present (3)
- Nine additional credit hours at the 300 level or above, arranged and approved in advance with an art history adviser, and 3 credit hours at the 200 or 300 level.

## Minor in Design

### Requirements

- 05.220 Design: Color Theory and Practice /A 1:2 (3)
- 05.225 Design: Form, Space, Vision /A 1:2 (3)
- 05.348 Design Techniques I (3)
- 05.350 Typography: Theory and Practice (3)
- Nine credit hours from the following:
  - 05.310 The History of Graphic Design (3)
  - 05.349 Design: Computer Graphics I (3)
  - 05.351 Design Techniques II (3)
  - 05.353 Typography: Color and Design (3)
  - 05.354 Production for Graphic Designers (3)

- 05.356 Advanced Design I (3)  
05.359 Illustration (3)

## Minor in Studio Art

### Requirements

Requirements for the minor in studio art are dependent upon the student's interest and choice of concentration. Areas of concentration may include painting, printmaking, sculpture, drawing, or ceramics. The studio art minor requires 21 credit hours arranged and approved in advance through consultation with a studio faculty adviser. The adviser and student select the appropriate sequence of courses from the following list:

- 05.100 Art: The Studio Experience /A 1:1 (3)  
05.205 Drawing: Responding to Vision /A 1:2 (3)  
05.210 Painting: Color, Form, Expression /A 1:2 (3)  
05.215 Sculpture: Form and Expression  
in 3-D /A 1:2 (3)  
05.320 Creative Painting (2-3)  
05.340 Sculpture (2-3)  
05.344 Ceramics (3)  
05.359 Illustration (3)  
05.360 Drawing (3)  
05.363 Introduction to Printmaking (3)  
05.364 Printmaking: Woodcut and Surface Print (3)  
05.520 Techniques of Etching (3)

## M.A. in Art History

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should hold a Bachelor of Arts degree from an accredited college or university. Students whose records indicate a strong aptitude for graduate study, but whose undergraduate major was not in art history, will be required to complete at least 24 credit hours of art history before being considered for admission to the graduate program. Admission is based on academic record and two letters of recommendation (if the undergraduate degree was not earned in the department).

At the department's discretion, students who have completed at least 18 credit hours of art history may be considered for admission and, if admitted, may complete the 6 credit hour deficiency during the course of their M.A. program.

Part-time students are advised that an M.A., which takes at least three semesters of full-time study, cannot be completed at night or in summer only.

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work (A special 36 credit hour program with a structured museum internship option is available to qualified students.)
- Tool of research: Intermediate level French, German, or Italian, or reading knowledge of one of these languages demonstrated through examination
- Advancement to candidacy after completion of 18 credit hours with a grade point average of 3.00 or higher (on a 4.00 scale) and satisfactory completion of the tool requirement

- Two written examinations:

One examination in 07.003 History of Western Art (Greek to Modern) and one in the student's specialized field of art history: 07.079 Medieval Art, 07.010 Renaissance Art, 07.011 Baroque and Rococo Art, 07.012 Nineteenth and Twentieth Century Art, 07.020 Art in the United States, or 07.021 Architecture.

- Two substantial research papers in lieu of a thesis. One paper must originate in a graduate seminar. One paper must be in the student's field of specialization.

### Course Requirements

- Nine credit hours in the field of specialization
- Six credit hours in master's research seminars, or independent study (07.792 and 07.793), of which 3 hours must be in the field of specialization (see examinations above for fields of specialization)
- 07.500 Approaches to Art History (3), if an equivalent course was not taken at the undergraduate level
- Remaining courses distributed according to individual program and needs

*Note:* About 6 additional credit hours of course work are required if museum training or more than one internship is selected.

### Curriculum Models

*Curriculum Model I: General History of Western Art.* A discipline-oriented approach for students who intend to continue for a Ph.D. elsewhere or to teach at the high school or junior college level. The M.A. program would emphasize a range of art history courses with a conventional period specialization.

*Curriculum Model II: Applied Research in Art History.* A practical-applications approach with intensive training in research and writing for students who seek special training for museum work, architectural survey, historic preservation research, etc. The M.A. program could include related course work in history, culture, American studies, etc., as well as internships and field experience.

*Curriculum Model III: Concepts of Art and Art History.* A problem-oriented approach aimed at depth of understanding of art and methods of art history, for students interested in connoisseurship and critical analysis, generally with an emphasis in painting. The M.A. program would include fine arts courses such as 05.533 Materials and Techniques of Painting (3) (for which some studio experience is required) and 05.700 Criticism of Painting (3), as well as independent reading courses in criticism, theory, or historiography.

### Special Opportunities

Individually structured programs in museum training and internships in local museums, galleries, agencies, or libraries, such as the National Museum of American Art, the American Institute of Architects, and the Library of Congress, are available for qualified students with departmental approval.

## M.F.A. in Painting, Sculpture, or Printmaking

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should hold a Bachelor of Arts (with a major in Fine Arts) or a Bachelor of Fine Arts. Under special circumstances, applicants without a B.A. or B.F.A. degree or without a major in Fine Arts, but with outstanding artistic or professional qualifications, may be considered for admission.

Admission is based on academic record, two letters of recommendation and a portfolio of at least twenty slides, including examples of drawings. A resume of the applicant's background should be included in the portfolio. Slide portfolios should be sent directly to the Department of Art. The Department of Art cannot be liable for loss or damage or for any transportation or mailing expense.

### Degree and Major Requirements

- A total of 36 credit hours of approved graduate work
- Additional studio (or art history) courses may be required to attain maturity and proficiency and to complete satisfactorily the comprehensives and thesis. The number and kinds of additional courses will be stipulated by the admissions committee at the time of admission.
- One oral examination after completion of 05.792 Art Laboratory and after each section of 05.797 Master's Thesis Seminar
- A thesis exhibition of original works of art in the student's field of concentration (painting, sculpture, or printmaking) executed independently by the student in consultation with a thesis committee of two or three faculty members. Written and photographic documentation of approved thesis is also required.

### Course Requirements

- 05.560 Drawing (9)
- 05.700 Criticism of Painting (3)
- 05.792 Art Laboratory: Painting (3)
- 05.797 Master's Thesis Seminar (9)
- Six additional credit hours from the following:
  - 05.520 Techniques of Etching (3)
  - 05.533 Materials and Techniques of Painting (3)
  - 05.560 Drawing (3)
  - 05.792 Art Laboratory: Painting (3)
  - 05.793 Art Laboratory: Sculpture (3)
  - 05.795 Art Laboratory: Printmaking (3)
- Six credit hours in art history, which must be in painting if thesis field is painting. Distribution for printmaking and sculpture must be approved by faculty.

## Audio Technology

**Director** Romeo A. Segnan

**Full-Time Faculty** See faculty listed under the Department of Physics in this chapter.

The B.S. in Audio Technology is a multidisciplinary program of the Department of Physics taught in cooperation with the School of Communication, the Department of Performing Arts, and Audiovisual Services. This unique program concentrates on the technology of sound; it is broad-based and includes overview courses in mass media, music theory, and theatre production. Such a program is the only route to the professionally recognized title of audio engineer. With this training, the student is prepared for a career as a recording engineer, a radio or television audio technologist, an electronic maintenance or design engineer, or a concert hall and theatre sound reinforcement engineer.

## B.S. in Audio Technology

### Admission to the Program

Formal admission to the program requires a grade point average of 2.00 (on a 4.00 scale) and the approval of the department undergraduate adviser. The Department of Physics counsels freshmen and transfer students.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 66 credit hours with grades of C or better

### Course Requirements

- One of the following:
  - 40.260 Introduction to Computing /N (4)
  - 40.280 Introduction to Computer Science I /N (4)
- 41.170 Precalculus Mathematics /N (3)
- 50.101 Fundamentals of Audio Technology /N (3)
- 50.102 Audio Technology Laboratory (1)
- 50.210 Sound Synthesis I (4)
- 50.212 Electronics I (3)
- 50.313 Electronics II (3)
- 50.220 Sound Synthesis II (4)
- 50.305 Acoustics (3)
- 50.322 Electronics Laboratory I (2)

- 50.323 Electronics Laboratory II (2)
- 50.384 TV Studio Operations (3)
- 50.410 Sound Studio Techniques and Practice (3)
- 50.420 Advanced Sound Studio Techniques (3)
- 50.500 Digital Interfacing (4)
- 50.501 Microprocessors and Digital Audio (4)
- 51.105 College Physics I / N 5:1 (4)
- 51.205 College Physics II / N 5:2 (4)
- 67.126 Music Theory for Nonmajors / A (3)
- One of the following:
  - 17.205 Understanding Mass Media / S 4:2 (3)
  - 17.333 Fundamentals of TV and VTR (3)
  - 17.346 Audio-Visual Communication (3)
  - 17.410 Interpersonal Communication (3)
- One of the following:
  - 67.260 Principles of Production I (4)
  - 67.382 Lighting Design (3)

### Special Opportunities

Internships are available at active professional recording studios, radio and television stations, and theatres. Employers of audio engineers include business, government, educational institutions, and the entertainment industry.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Minor in Audio Technology

The minor in audio technology is designed for students who desire a working knowledge of audio techniques. Students wishing to minor in audio technology should consult the academic advisers in the Department of Physics.

### Course Requirements

- 50.101 Fundamentals of Audio Technology / N (3)
- 50.102 Audio Technology Laboratory (1)
- 50.384 TV Studio Operations (3)
- 50.410 Sound Studio Techniques and Practice (3)
- 50.420 Advanced Sound Studio Techniques (3)
- 51.105 College Physics I / N 5:1 (4)
- 51.205 College Physics II / N 5:2 (4)
- 17.333 Fundamentals of TV and VTR (3)
- or
- one of the following:
  - 17.346 Audio-Visual Communication (3)
  - 17.430 Basic Photography (3)
  - 17.435 Introduction to Studio Television (3)

## Biology

**Chair** David C. Culver

### Full-Time Faculty

**Professor** W.C. Banta, E.J. Breyer (Emeritus),  
D.C. Culver, M.C. Sager (Emerita)

**Associate Professor** B.J. Clarke, R.H. Fox, S.C. Grebe,  
C.R. Wrathall

**Assistant Professor** I. Chow, K. Conway,  
D.W. Fong, C. Schaeff

**Research Faculty** D. Boness, G. Loeb, R. Fleischer

The Department of Biology provides basic training in the life sciences, emphasizing modern advances in areas of molecular genetics, embryology and development, and evolutionary biology. Faculty members are involved in conducting research in developmental biology, evolutionary biology, neurobiology, microbiology, ecology, oceanography, immunology, and molecular biology. Students are encouraged to participate in research projects at all levels.

The department offers programs leading to the B.S. as well as graduate programs leading to the M.A. and M.S. degrees. Besides training for a career of graduate study in biology, bachelor's students are prepared for medical, dental, and veterinary schools. The Department of Biology offers courses that combine traditional education with training necessary in today's professional marketplace. Curricula are designed to allow maximum individual choice of course selection after departmental requirements have been met.

Our students have the opportunity to visit, observe, and intern in some of the nation's most prestigious biological research centers, including the National Institutes of Health (NIH) and the National Institute of Mental Health (NIMH).

Two minors are offered, one in Biology, and one in Environmental Science. The Environmental Science minor is especially designed for students who are not majoring in the sciences but wish to have rigorous training in the area of environmental science.

In cooperation with the School of Education, the department also offers a special curriculum that leads to certification for teaching biology at the high-school level. Students who have selected this specialization must consult the teacher-education adviser in the biology department during the second semester of the freshman year. The Department of Biology is accredited for teacher education by two national accrediting organizations: the National Council for the Accreditation of Teacher Education (NCATE) and the National Association of State Directors of Teacher Education and Certification (NASDTEC).

### Graduate Degrees and Specialties

The Department of Biology offers programs leading to the M.A. and M.S. degrees with concentrations in developmental biology and evolutionary biology. The department also offers an interdisciplinary program in environmental toxicology. No other university in the Washington, D.C. metropolitan area offers strong concentrations in developmental biology and evolutionary biology at the master's level.

Graduates may choose to pursue further graduate training or attend professional school. Laboratory technicians or other persons in biomedical careers may earn their degrees as a way of upgrading their classifications and job skills. In addition, graduates will be able to take advantage of job opportunities in places such as research laboratories, museums, and zoos.

Both the M.S. and M.A. degrees in biology emphasize the development of research techniques. Research and teaching laboratories are well equipped and constantly upgraded. Students have the opportunity to gain experience in scientific methods and experimental design in the laboratory and in the field.

Graduate research may be carried out in the department or in the laboratories of such federal agencies as Walter Reed Institute of Pathology, the National Institutes of Health, and the U.S. Naval Hospital.

Graduate students can apply for the Helmlinge and Burhoe Awards. These two fellowships are available only to biology graduate students.

### Experiential Learning Opportunities

In addition to on-campus courses that provide laboratory and field experiences, students may also participate in a wide array of activities off campus in living-learning programs. Students may also be placed in government policy-making or regulatory agencies and private-sector laboratories as interns or on independent study projects.

Preprofessional students in the health sciences visit hospitals and clinics in the area and have an active speaker program run by their student club.

## B.A. in Environmental Studies

The B.A. in Environmental Studies is an interdisciplinary program of studies designed to provide a basic understanding of the scientific and social processes that shape our environment. Each student follows one of two tracks, in Environmental Science or Environmental Policy. Both tracks provide a solid foundation based on the natural sciences as well as the social sciences, through coursework spanning many disciplines, including courses in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs. For a description of this program, see the Interdisciplinary Degree Programs chapter in this catalog.

## B.S. in Biology

### Admission to the Program

Admission is through formal declaration of major. The department counsels freshmen and transfer students.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 72 credit hours with grades of C or better

### Course Requirements

#### Departmental Requirements

- 09.110 General Biology I /N 5:1 (4)
- 09.210 General Biology II /N 5:2 (4)
- 09.300 Cell Biology with Laboratory (4)
- 09.356 Genetics with Laboratory (5)
- 09.499 Senior Seminar in Biology (3)
- Twenty credits from the following, or other approved courses at the 300 level or above:
  - 09.404 Biology of Plants with Laboratory (4)
  - 09.410 Invertebrate Zoology with Laboratory (4)
  - 09.423 Introduction to Ecology (3)
  - 09.435 Vertebrate Physiology with Laboratory (5)
  - 09.440 Microbiology with Laboratory (4)
  - 09.550 Developmental Biology with Laboratory (4)
  - 09.566 Evolutionary Mechanisms (3)

#### Related Requirements

- 15.110 General Chemistry I /N 5:1 (4)
- 15.210 General Chemistry II /N 5:2 (4)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- 51.110 University Physics I /N 5:1 (4)
- 51.210 University Physics II /N 5:2 (4)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- or
- 42.202 Basic Statistics /N (4)

### Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education section in this chapter for information.

### Premedicine

Many premedical students major or minor in Biology. All prospective premedical students should contact the premedical adviser, Dr. I. Chow, for academic advice and additional information. See the section on Premedical Programs in this catalog for further details.

### Pre-engineering

For the many students studying in the fields of mathematics, physics, chemistry, biology, and distributed sciences who are potential engineers, the American



University has established cooperative five-year programs with the School of Engineering and Applied Science, Washington University, St. Louis, Missouri, and with the College of Engineering, University of Maryland.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Minor in Biology

### Requirements

- 09.110 General Biology I / N 5:1 (4)
- 09.210 General Biology II / N 5:2 (4)
- 09.300 Cell Biology with Laboratory (4)
- 15.110 General Chemistry I / N 5:1 (4)
- 15.210 General Chemistry II / N 5:2 (4)
- One of the following (or other approved courses):
  - 09.356 Genetics with Laboratory (5)
  - 09.404 Biology of Plants with Laboratory (4)
  - 09.410 Invertebrate Zoology with Laboratory (4)
  - 09.423 Introduction to Ecology (3)
  - 09.440 Microbiology with Laboratory (4)
  - 09.550 Developmental Biology with Laboratory (4)

## Minor in Environmental Science

Many nonscience majors want to have a strong background in environmental science to enable them to understand the scientific principles of environmental dynamics in relation to international affairs, corporate responsibility, federal and state laws, and the process of public administration. The minor in Environmental Science provides a rigorous curriculum in the natural sciences while enabling students to acquire the skills and information to evaluate scientific studies and problems with critical insight.

### Minor Requirements

- A total of 25 credit hours

### Course Requirements

- 09.110 General Biology I / N 5:1 (4)
- 09.210 General Biology II / N 5:2 (4)
- 09.375 Water Resources (3)
- 09.423 Introduction to Ecology (3)
- 15.110 General Chemistry I / N 5:1 (4)
- 15.401 Geology (3)
- 41.211 Applied Calculus I (4)  
or  
41.221 Calculus I (4)

## Combined B.S./M.S. Program in Biology

This program is primarily designed for students who wish to pursue a doctoral degree in biology or who desire employment in biology research or administration. Students may focus their course work in either Developmental Biology or Evolutionary Biology, the two areas of concentration for the M.S. degree in the Department of Biology. Students may conduct their research in either of these two broad categories, which include physiology, neurobiology, molecular biology, genetics, and molecular evolution research.

### Admission to the Program

The standards for admission to the undergraduate major must first be satisfied. Undergraduate biology majors should apply for admission to the B.S./M.S. program by the end of the junior year.

Admission is open to undergraduates whose overall grade point average and grade point average in biology is 3.00 or higher. Applications must be accompanied by two letters of recommendation and a statement of purpose. Graduate Record Examination (GRE) scores are not required for admission to the B.S./M.S. program.

Students should discuss their interest in the program and their course schedules with members of the faculty before submitting a formal application. Interested students are encouraged to enroll in 09.490 Independent Study Project in Biology to conduct independent study research, before applying.

### Requirements

- All requirements for a B.S. in Biology degree
- All requirements for an M.S. in Biology degree

Students may use up to 6 credit hours from the following to satisfy the requirements for both degrees:

- 09.xxx courses at the .500 level or above
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 42.514 Statistical Methods (3)

## M.S. in Biology

This is a research degree that may serve as an intermediate degree for those intending to pursue further graduate study in evolutionary biology and developmental biology.

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must take the General Test and the Advanced Test in Biology of the Graduate Record Examination. Admission is based on evaluation of undergraduate and previous graduate work by the departmental graduate studies committee and two letters of recommendation.

## Tracks

### Developmental Biology and Evolutionary Biology

#### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- Comprehensive examination in either developmental biology or evolutionary biology
- An examination in computer programming or in the use of an approved statistical software package as a tool of research
- Advancement to candidacy, which requires the acceptance of a research proposal by the student's adviser, the graduate studies committee, and the chair of the department at least one semester prior to the oral defense of the thesis
- Completion, oral defense, and the acceptance of thesis by the thesis committee, chair of the department, and the university

#### Course Requirements

##### *Developmental Biology*

- 09.550 Developmental Biology with Laboratory (4)
- 09.555 Techniques of Molecular Biology (3)
- 09.560 Techniques in Cell Biology (3)
- 09.697 Research Methods in Biology (3)
- 09.797 Master's Thesis Research (6)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- An additional 6 hours of graduate courses from the following, or other courses by permission of the department:
  - 09.505 Introduction to Neurobiology (3)
  - 09.577 Special Topics in Developmental Biology (1-4)
  - 42.514 Statistical Methods (3)

##### *Evolutionary Biology*

- 09.565 Techniques of Ecological Research (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.568 Techniques of Evolutionary Research (3)
- 09.697 Research Methods in Biology (3)
- 09.797 Master's Thesis Research (6)
- 42.514 Statistical Methods (3)
- An additional 9 hours of graduate courses from the following list, or other courses by permission of the department:
  - 09.572 Special Topics in Ecology (1-4)
  - 15.560 Biochemistry I (3)
  - 15.561 Biochemistry II (3)
  - 41.501 Probability (3)
  - 42.502 Introduction to Mathematical Statistics (3)
  - (in lieu of 42.514 Statistical Methods)

## M.A. in Biology

This is a nonthesis degree that may serve as a terminal degree for students in various life-science professions, as additional training for students seeking admission to professional schools, or as an intermediate degree for those intending to pursue further graduate study.

#### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must take the General Test and the Advanced Test in Biology of the Graduate Record Examination. Admission is based on evaluation of undergraduate and previous graduate work by the departmental graduate studies committee and three letters of recommendation.

#### Degree and Major Requirements

- A total of 32 credit hours of approved graduate work
- Comprehensive examination in general biology, developmental biology, or evolutionary biology
- An examination in computer programming, or the use of an approved statistical software package as a tool of research
- Directed literature research (09.790) resulting in a significant paper reviewing some aspect of biological science; the subject of this review paper is selected by the student subject to approval by the graduate studies committee and the chair of the department
- An oral report presented in the form of a public seminar on the topic of the review paper

#### Course Requirements

##### *General Biology*

- 09.550 Developmental Biology with Laboratory (4)
- 09.555 Techniques of Molecular Biology (3)
- 09.560 Techniques in Cell Biology (3)
- 09.565 Techniques of Ecological Research (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.568 Techniques of Evolutionary Research (3)
- 09.690 Independent Study Project in Biology (1-6)
- 09.697 Research Methods in Biology (3)
- 09.790 Biology Literature Research (1-6)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

##### *Developmental Biology*

- 09.550 Developmental Biology with Laboratory (4)
- 09.555 Techniques of Molecular Biology (3)
- 09.560 Techniques in Cell Biology (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.690 Independent Study Project in Biology (1-6)
- 09.697 Research Methods in Biology (3)
- 09.790 Biology Literature Research (1-6)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

- An additional 5 hours of graduate courses from the following, or other courses by permission of the department:  
09.505 Introduction to Neurobiology (3)  
09.577 Special Topics in Developmental Biology (1-4)  
*Evolutionary Biology*
- 09.550 Developmental Biology with Laboratory (4)
- 09.565 Techniques of Ecological Research (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.568 Techniques of Evolutionary Research (3)
- 09.690 Independent Study Project in Biology (1-6)
- 09.697 Research Methods in Biology (3)
- 09.790 Biology Literature Research (1-6)
- 42.514 Statistical Methods (3)
- An additional 8 hours of graduate courses from the following, or other courses by permission of the department:  
09.572 Special Topics in Ecology (1-4)  
15.560 Biochemistry I (3)  
15.561 Biochemistry II (3)  
41.501 Probability (3)  
42.502 Introduction to Mathematical Statistics (3)  
(in lieu of 42.514 Statistical Methods)

### Special Opportunities

Teaching Fellowships, Helmlinge Fellowship, Burhoe Fellowship.

## Interdisciplinary M.S. in Toxicology

The M.S. in Toxicology is an interdisciplinary degree offered jointly by the Departments of Chemistry and Biology. For a description of this program, see listing under Chemistry in this chapter.

# Chemistry

**Chair** Nina M. Roscher

### Full-Time Faculty

**Horace and May Isbell Chair in Natural Products Chemistry** D. Horton

**Professor** M.H. Aldridge (Emerita), T.H. Brownlee (Visiting Scientist), H.S. El Khadem (Isbell Professor Emeritus), R.T. Foley (Emeritus), J.E. Girard, N.M. Roscher, P.F. Waters (Emeritus)

**Associate Professor** T.S. Cantrell, F.W. Carson, A.M. Cheh

**Assistant Professor** I.I.F. Dobolyi, R.L. Luck

### Research Faculty

**Research Professor** B.H. Alexander, J. Kutina, L.T. Hughes, S.J. Mazur, N.S. Simon, E.M. Schalk

Chemistry is the science that deals with the composition of materials, their structures and properties, the transformations they undergo, and the energy changes that accompany these transformations. Areas of study include general, organic, physical, analytical, and inorganic chemistry, as well as biochemistry and earth science. Students are encouraged to participate in research projects at all levels.

Accredited by the American Chemical Society, the department offers programs leading to the B.S. as well as graduate programs leading to the M.S. and Ph.D. degrees in chemistry. Besides training for a career or graduate study in chemistry, bachelor's students are prepared for medical or dental school, engineering programs, and other careers where technical expertise is needed. The department provides a personal, congenial environment where students can develop and pursue a flexible program of study designed to fulfill individual interests and needs.

Faculty members are involved in conducting research in analytical chemistry, biochemistry, inorganic chemistry, biotechnology, organic synthesis, and physical biochemistry. Laboratory research projects are available in our own well-equipped modern building and also at many world-renowned research laboratories in the Washington, D.C. area with which the department maintains close liaison.

### Affiliations

Research opportunities in the Washington area through internships, cooperative education work-study programs, and special arrangements are available at the following laboratories: Armed Forces Radiobiology Research Institute, Bureau of Mines, Center for Advanced Research in Biotechnology, Food and Drug Administration, National Institute of Standards and Technology, National Institutes of Health, Naval Medical Research Institute, Naval Research Laboratory, Naval Surface Weapons Laboratory, U.S. Army Mobility Equipment Research and Development Command at Fort Belvoir, and the Walter Reed Army Institute of Research. Students who participate in these programs obtain experience with specialized equipment and interact with research scientists outside the university.

## B.S. in Chemistry

### Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale). The department counsels freshmen and transfer students, as well as declared chemistry majors.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 8 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 65 credit hours with grades of C or better

### Course Requirements

- 15.110 General Chemistry I /N 5:1 (4)
- 15.210 General Chemistry II /N 5:2 (4)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- 15.350 Quantitative Analysis (3)
- 15.351 Quantitative Analysis Laboratory (2)
- 15.410 Physical Chemistry I (3)
- 15.411 Physical Chemistry I Laboratory (2)
- 15.420 Physical Chemistry II (3)
- 15.421 Physical Chemistry II Laboratory (2)
- 15.460 Instrumental Analysis (3)
- 15.461 Instrumental Analysis Laboratory (2)
- 15.507 Chemical Literature (1)
- 15.550 Advanced Inorganic Chemistry (3)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 51.110 University Physics I /N 5:1 (4)
- 51.210 University Physics II /N 5:2 (4)
- At least 3 credit hours from the following:  
15.490 Independent Study Project (1-6)  
15.498 Honors: Senior Year (1-3)  
15.499 Honors: Senior Year (1-3)

### Recommended Courses

- 15.200 Human Biochemistry and Health /N 5:2 (3)
- 15.220 Environmental Chemistry /N 5:2 (3)
- 15.230 Earth Science /N 5:2 (3)

- 15.401 Geology (3)
  - 15.560 Biochemistry I (3)
  - 15.561 Biochemistry II (3)
  - 15.570 Computers in Chemistry (3)
- Courses in biology and physics

### For graduate school preparation:

- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.546 Thermodynamics and Statistical Mechanics (3)
- 15.551 Topics in Inorganic Chemistry (3)

### Medical school requirements include:

- 09.110 General Biology I /N 5:1 (4)
- 09.210 General Biology II /N 5:2 (4)

### Also recommended for medical school preparation:

- 09.300 Cell Biology with Laboratory (4)
- 09.440 Microbiology with Laboratory (4)
- 09.501 Mechanisms of Pathogenesis (3)
- 09.505 Introduction to Neurobiology (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

### Other suggested electives include:

- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 42.202 Basic Statistics /N (4)
- 42.515 Regression (3)
- 50.312 Electronics I (3)
- 50.313 Electronics II (3)
- 51.330 Classical Mechanics (3)
- 51.350 Electricity and Magnetism (3)
- 51.370 Modern Physics (3)

**Note:** Competence in German, French, or Russian through the intermediate level is expected. German is highly recommended because of its value in literature searching, which is taught in 15.507 Chemical Literature.

### Special Opportunities

- Milton Harris Prizes for entering chemistry majors
- Anthony M. Schwartz Undergraduate Research Fellowship
- A cooperative work-study program involving several participating research organizations is available through the Department of Chemistry. The undergraduate student is expected to work full time for six months and study at the university for five months. Further details are available from the department office.
- An undergraduate research program is available. Qualified junior and senior chemistry majors may conduct research under 15.390 or 15.490 Independent Study Project in Chemistry.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To fulfill honors requirements for University Honors in Chemistry, students may take Honors supplements to satisfy the advanced-level requirements, but are especially

encouraged to meet with members of the Chemistry faculty to discuss independent research projects that could comprise both the advanced-level and capstone experiences. Once a project is decided upon, the student would register for either 15.398, 15.399, 15.498, or 15.499 as appropriate. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Environmental Studies

The B.A. in Environmental Studies is an interdisciplinary program of studies designed to provide a basic understanding of the scientific and social processes that shape our environment. Each student follows one of two tracks, in Environmental Science or Environmental Policy. Both tracks provide a solid foundation based on the natural sciences as well as the social sciences, through coursework spanning many disciplines, including courses in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs. For a description of this program, see the Interdisciplinary Degree Programs chapter in this catalog.

## Minor in Chemistry

### Requirements

- 15.110 General Chemistry I /N 5:1 (4)
- 15.210 General Chemistry II /N 5:2 (4)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- Eight credit hours chosen with the advice and approval of the department chair from the following:
  - 15.350 Quantitative Analysis (3)
  - 15.351 Quantitative Analysis Laboratory (2)
  - 15.410 Physical Chemistry I (3)
  - 15.411 Physical Chemistry I Laboratory (2)
  - 15.420 Physical Chemistry II (3)
  - 15.421 Physical Chemistry II Laboratory (2)
  - 15.460 Instrumental Analysis (3)
  - 15.461 Instrumental Analysis Laboratory (2)
  - 15.560 Biochemistry I (3)
  - 15.561 Biochemistry II (3)

### See Also:

- The Cooperative Education Program section in this publication for information concerning work-study research opportunities at affiliated institutions.
- The Interdepartmental Science section for information concerning requirements for the Bachelor of Science degree with a major in distributed science.
- The Pre-engineering and Premedical sections in this chapter for descriptions of these programs.

## Combined B.S./M.S. Program in Chemistry

This program is designed for students who are interested in a career in chemistry or in other careers where technical expertise is needed. It also provides a strong foundation in chemistry for students entering medical, dental, or law school. Students are encouraged to participate in research at all levels, preferably beginning after their sophomore year.

### Admission to the Program

The standards for admission to the undergraduate major must first be satisfied. Undergraduate chemistry majors should apply for admission to the B.S./M.S. program by the end of the junior year.

Admission is open to undergraduates whose overall grade point average in chemistry is 3.00 or higher. Applications must be accompanied by two letters of recommendation and a statement of purpose.

Students should discuss their interest in the program and their course schedules with members of the faculty before submitting a formal application. Interested students are encouraged to enroll in 15.490 Independent Study Project in Chemistry to conduct independent study research before applying.

### Requirements

- All requirements for a B.S. in Chemistry degree
- All requirements for a M.S. in Chemistry degree

Students may use up to 6 credit hours from the following to satisfy the requirements for both degrees:

- 15.xxx courses at the .500 level or above
- 42.514 Statistical Methods (3)
- 51.570 Introduction to Quantum Mechanics (3)

## M.S. in Chemistry

### Admission to the Program

Applicants must have earned a degree equivalent to fulfilling the requirements for a B.S. in chemistry with a 3.00 cumulative grade point average (on a 4.00 scale) in chemistry from a college accredited by the American Chemical Society. All applications must be approved by the faculty of the Department of Chemistry.

### Tracks

Analytical and Inorganic Chemistry (joint program), Biochemistry, and Organic Chemistry.

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- The entire course of study must constitute a unified program with specific major and minor fields and a proposed curriculum approved by the department's graduate evaluation committee and the chair of the department one semester after the student enters the program
- Advancement to candidacy on completion of 12 credit hours of graduate course work

- An examination in German, French, Russian, computer programming, or statistics as a tool of research.
- One comprehensive examination in the major field
- A thesis of publishable quality based on original chemical laboratory research

### Course Requirements

- 15.507 Chemical Literature (1) (unless completed with a grade of B or better as an undergraduate)
  - 15.550 Advanced Inorganic Chemistry (3) (unless completed with a grade of B or better as an undergraduate)
  - 15.700 Seminar in Chemistry (1)
  - 15.797 Master's Thesis Research (6)
- Analytical and Inorganic Chemistry*
- 15.522 Interpretation of Spectra (3)
  - 15.551 Topics in Inorganic Chemistry (3)
  - 15.610 Advanced Analytical Chemistry (3)

#### *Biochemistry*

- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.661 Enzyme Kinetics and Mechanisms (3)

#### *Organic Chemistry*

- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Note: See the Cooperative Education section of this publication for information concerning work-study research opportunities at affiliated institutions.

A Master of Science in Health/Fitness Management is listed under Health and Fitness.

## Interdisciplinary M.S. in Toxicology

The M.S. in Toxicology is an interdisciplinary degree offered jointly by the Department of Chemistry and the Department of Biology.

### Admission to the Program

Applicants must have earned a degree in chemistry, biology, or a related field from an accredited college or university. Admission is based on evaluation by the Department of Chemistry faculty of undergraduate and previous graduate work and two letters of recommendation. A cumulative undergraduate grade point average of 3.00 (on a 4.00 scale) is required, unless the applicant meets the alternate criteria of having a grade point average of 3.50 in the last 12 credit hours of graduate work.

### Degree and Major Requirements

- A total of 36 credit hours of approved graduate work
- Tool of research: statistics
- One comprehensive examination in toxicology
- Six credit hours of research seminar with a grade of B or better

### Course Requirements

- 09.660 Mammalian Physiology and Pathology (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.670 Principles of Pharmacology (3)
- 15.671 Principles of Toxicology (3)
- 15.682 Toxicological Testing (3)
- 15.751 Research Seminar in Toxicology (3) (must be taken twice for 6 credits)
- Twelve credit hours chosen from the following:  
09.555 Techniques of Molecular Biology (3)  
09.560 Techniques in Cell Biology (3)  
09.583 Molecular Biology (3)  
09.679 Aquatic Toxicology (3-4)  
15.501 Principles of Analytical Chemistry (3)  
15.680 Chemical Mutagens and Carcinogens (3)

## Ph.D. in Chemistry

### Admission to the Program

Applicants must have earned either (1) a degree equivalent to fulfilling the requirements for a B.S. in chemistry with a 3.00 cumulative grade point average (on a 4.00 scale) in chemistry from a college accredited by the American Chemical Society or (2) an M.S. or M.A. in chemistry. All applications must be approved by the faculty of the Department of Chemistry.

### Tracks

Analytical and Inorganic Chemistry (joint program), Biochemistry, and Organic Chemistry

### Degree and Major Requirements

- A total of 72 credit hours of approved graduate work: The entire course of study must constitute a unified program with specific major and minor fields and a proposed curriculum approved by the department's graduate evaluation committee and the chair of the department one semester after the student enters the program. The course program consists of a set of core courses supplemented by electives determined in consultation with the student's adviser or the graduate evaluation committee.
- Advancement to candidacy on completion of 18 graduate credit hours in chemistry for students admitted with a B.S. or B.A. degree. Students admitted from another university with an M.S. degree are required to file for advancement to candidacy on completing 9 graduate credit hours in chemistry.

- Tool of research: examinations in two of the following: Russian, German, French, computer programming, or statistics.
- Four comprehensive examinations, two in the major field, one in the minor field, and one oral examination in defense of the dissertation proposal.
- A dissertation of publishable quality based on original chemical laboratory research and oral defense before the student's committee.

### Course Requirements

- 15.507 Chemical Literature (1)  
(unless completed with a grade of B or better as an undergraduate)
- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.550 Advanced Inorganic Chemistry (3)  
(unless completed with a grade of B or better as an undergraduate)
- 15.610 Advanced Analytical Chemistry (3)
- 15.700 Seminar in Chemistry (2)
- 15.799 Doctoral Dissertation Research (12-24)
- An additional two courses from the following:  
15.546 Thermodynamics and Statistical Mechanics (3)  
15.565 Physical Biochemistry (3)  
15.642 Chemical Kinetics (3)  
51.570 Introduction to Quantum Mechanics (3)

Electives determined by the student's choice of track:

#### *Analytical and Inorganic Chemistry*

- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.551 Topics in Inorganic Chemistry (3)  
or
- 15.618 Topics in Analytical Chemistry (3)

#### *Biochemistry*

- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.565 Physical Biochemistry (3)
- 15.600 Special Topics in Chemical Literature (1-3)
- 15.661 Enzyme Kinetics and Mechanisms (3)

#### *Organic Chemistry*

- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

*Note:* See the Cooperative Education section of this publication for information concerning work-study research opportunities at affiliated institutions.

## Graduate Certificate in Toxicology

### Admission to the Program

Open to students with bachelor's degree in chemistry or biology.

### Course Requirements

- 15.560 Biochemistry I (3) (Prerequisite: 15.320 Organic Chemistry II)
- 15.561 Biochemistry II (3)
- 15.671 Principles of Toxicology (3)
- 15.670 Principles of Pharmacology (3)
- 15.682 Toxicological Testing (3)
- 09.660 Mammalian Physiology and Pathology (3)

Other approved electives may be substituted

## Computer Science and Information Systems

Chair Anita J. La Salle

### Full-Time Faculty

**Professor** R.A. Bassler (Emeritus), T.J. Bergin, M.W. Gray, R.A. Holzager, W.J. Kennevan (Emeritus), L.R. Medsker, I.D. Welt (Emeritus), A. Wu

**Associate Professor** S. Becker, F.W. Connolly, L.J. Crone, W.H. Gammon (Emeritus), R. Khorramshahgol, A.J. La Salle, M. Owang

**Assistant Professor** R. Gibson, M.A. Gray, A. Nigrin, G. Smith

**Instructor** M. Foley, B.J. Gleason, D. Lemmon, G. McGuire, G. Welsh

The Department of Computer Science and Information Systems combines the resources and knowledge of two disciplines that concentrate on different aspects of the computer and information revolution. This combination enables students to gain a broader view of these fields than would otherwise be possible. The American University's Washington, D.C. location affords students access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment for students with a strong technological background.

Computer science is the study of the theory and technology of computation itself. It is the science of information and of the structures that communicate, store, and process information. Whether one studies the machine (hard-

ware) or the instructions executed by the machine (software), the fundamental concepts are similar.

Information systems is a professionally-oriented area covering all aspects of the analysis, design, development, and maintenance of computerized information systems. As all types of organizations become dependent on automated information resources, demand grows for information systems professionals.

Our information systems programs provide opportunities for course work to meet each student's special interests by allowing major electives to be chosen from other units in the university. With the help of an adviser from the other unit, the student can choose related courses that meet his or her needs.

The computer science and information systems programs at the American University ensure a balanced presentation of the practical and theoretical aspects of computer science. The program provides students with a background that may form the basis for graduate study or for professional employment.

## B.S. in Computer Information Systems

This program is designed to give students a thorough foundation in both the academic and practical aspects of information systems.

### Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and departmental approval.

### University Requirements

- A total of 120 credit hours
- Six hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 71 credit hours with grades of C or better

### Required Core Courses

- 55.210 Introduction to Computer Information Systems (3)
- 55.234 Programming Concepts I: COBOL (3)
- 55.235 Programming Concepts II: Advanced COBOL/N (3)
- 55.315 Human Factors in Computer Information Systems (3)
- 55.325 Computer Hardware and System Software (3)
- 55.440 Database Management in Computer Information Systems (3)

- 55.455 Introduction to Systems Analysts (3)
- 55.460 Applied Systems Design (3)
- 55.465 Designing and Writing Computer Documentation (3)
- 55.480 Senior Seminar in Computer Information Systems (3)
- 55.485 Senior Workshop in Computer Information Systems (3)

### Required Analytical Skills Courses

- 14.240 Principles of Accounting I (3)
- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 41.211 Applied Calculus I /N (4)  
or  
41.221 Calculus I /N (4)
- 42.202 Basic Statistics /N (4)
- 55.432 Introduction to Simulation and Modeling (3)

Note: 19.100 and 19.200 fulfill the General Education Requirement in Curricular Area 4, Social Institutions and Behavior. Either 41.211 or 41.221 satisfies the College Mathematics Requirement.

### Applications Area

- Two courses in an area of application of interest to the student to be approved by an academic adviser (minimum 6 credit hours). The courses must reflect a substantive area in which the student can apply his or her knowledge of information systems. Examples of applications areas include but are not limited to the following: international development, scientific information systems, computer science, social science research, communication, public administration, personnel management, business administration, and arts management.

### Elective Courses

- Twelve credit hours from the following:
  - 55.363 Microcomputer Applications in Computer Information Systems (3)
  - 55.390 Independent Reading in Computer Information Systems (1-3)
  - 55.392 Cooperative Education Field Experience (3)
  - 55.450 Information Storage and Retrieval (3)
  - 55.490 Independent Study in Computer Information Systems (1-3)
  - 55.491 Internship (1-3)
  - 55.532 Advanced Programming Management (3)
  - 40.282 Assembly-Language Programming (4)
  - 40.336 Pascal and Elementary Data Structures (3)
  - 40.340 Data Structures and Algorithms (3)
  - 40.345 Software Engineering (3)
  - 40.365 Introduction to Operating Systems (3)
  - 40.510 Legal Issues in Computing (3)
  - 40.568 Artificial Intelligence (3)
  - 40.584 Computer Graphics (3)

Note: No more than 6 credit hours of Cooperative Education Field Experience, Internship, Independent



Study, or Independent Reading may be used to fulfill this requirement.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Minor in Computer Information Systems

### Requirements

The minor in Computer Information Systems requires the completion of six courses (18 credit hours): three core courses and three electives.

- 55.210 Introduction to Computer Information Systems (3)
- 55.315 Human Factors in Computer Information Systems (3)
- 55.363 Microcomputer Applications in Computer Information Systems (3)
- Three elective courses, with at least one at the 300 level or above, to be selected in consultation with a faculty advisor from the following:
  - 55.234 Programming Concepts I (3)
  - 55.235 Programming Concepts II (3)
  - 55.325 Computer Hardware and Systems Software (3)
  - 55.440 Database Management in Computer Information Systems (3)
  - 55.455 Introduction to Systems Analysis (3)
  - 55.460 Applied Systems Design (3)
  - 40.280 Introduction to Computer Science I (4)
  - 40.281 Introduction to Computer Science II (3)
  - 10.354 Business Applications of Computers (3)
  - 10.454 Managing Information for Business Decision Making (3)

## B.S. in Computer Science

### Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.00 (on a 4.00 scale) and satisfactory completion (C or better) of 40.280 Introduction to Computer Science I (4), 40.281 Introduction to Computer Science II (3), and 41.221 Calculus I (4)

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 8 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 73 credit hours with grades of C or better

### Course Requirements

- 40.280 Introduction to Computer Science I / N (4)
- 40.281 Introduction to Computer Science II / N (3)
- 40.282 Assembly-Language Programming (4)
- 40.330 Organization of Computer Systems (3)
- 40.340 Data Structures and Algorithms (3)
- 40.341 Organization of Programming Languages (3)
- 40.350 Introduction to Discrete Structures (3)
- 40.365 Introduction to Operating Systems (3)
- 40.382 Automata, Languages, and Computability (3)
- 41.221 Calculus I / N (4)
- 41.222 Calculus II / N (4)
- 41.310 Linear Algebra (3)
- 42.202 Basic Statistics / N (4)
- At least five additional courses approved by the student's adviser from the following list:
  - 40.320 Introduction to File Design (3)
  - 40.345 Software Engineering (3)
  - 40.392 Cooperative Education Field Experience (3)
  - 40.396 An appropriate Selected Topics (.396) course may be used to fulfill this requirement with permission of the student's adviser (3)
  - 40.460 Introduction to Numerical Methods (3)
  - 40.510 Legal Issues in Computing (3)
  - 40.541 Computer Architecture (3)
  - 40.546 Introduction to Computer Networks (3)
  - 40.560 Microcomputer Architecture (3)
  - 40.566 Introduction to Compilers (3)
  - 40.568 Artificial Intelligence (3)
  - 40.570 Data Management Systems (3)
  - 40.584 Computer Graphics (3)
  - 40.596 An appropriate Selected Topics (.596) course may be used to fulfill this requirement with permission of the student's adviser (3)
  - 41.560 Numerical Analysis: Basic Problems (3)
  - 55.432 Introduction to Simulation and Modeling (3)
  - 55.440 Database Management in Computer Information Systems (3)
  - 55.455 Introduction to Systems Analysis (3)
  - 55.460 Applied Systems Design (3)
- A two-semester sequence of laboratory science; recommended sequences:
  - 51.105 College Physics I / N 5:1 (4) and
  - 51.205 College Physics II / N 5:2 (4)
  - or
  - 51.110 University Physics I / N 5:1 (4) and
  - 51.210 University Physics II / N 5:2 (4)
  - or

15.110 General Chemistry I / N 5:1 (4) and  
15.210 General Chemistry II / N 5:2 (4)  
or  
09.110 General Biology I / N 5:1 (4) and  
09.210 General Biology II / N 5:2 (4)

- Two additional science courses, and/or courses with strong emphasis on quantitative methods

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Minor in Computer Science

### Requirements

- 40.280 Introduction to Computer Science I / N (4)  
or  
40.260 Introduction to Computing (4)  
(with a grade of B or better)
- 40.281 Introduction to Computer Science II / N (3)
- 40.340 Data Structures and Algorithms (3)
- Three additional computer science courses numbered 40.3xx or above  
or  
40.282 Assembly-Language Programming (4) and two courses numbered 40.3xx or above

## Combined B.S./M.S. Program in Computer Science

Students receive a B.S. in Computer Science and an M.S. in Computer Science.

### Admission to the Program

Admission is open to undergraduate Computer Science majors with a minimum grade point average of 3.20 (on a 4.00 scale). Applicants must have completed 40.280 Introduction to Computer Science I, 40.281 Introduction to Computer Science II, 40.282 Assembly-Language Programming, 40.340 Data Structures and Algorithms, and 40.341 Organization of Programming Languages by the end of the junior year.

### Degree and Major Requirements

- A minimum of 97 credit hours of course work
- An approved tool of research
- Comprehensive examination
- Thesis option: 6 hours of 40.797 Master's Thesis Seminar in Computer Science and an oral defense of the thesis

- Nonthesis option: 6 hours of independent research projects, seminars, or other research courses approved by the department

### Course Requirements

- All of the requirements for the B.S. in Computer Science
- Six computer science courses at the 500 level or above (not including 40.520 Algorithms and Data Structures, 40.521 Design and Organization of Programming Languages, or 40.540 Computer System Organization and Programming)
- Six hours of course work to fulfill the thesis or nonthesis option

## Combined B.S./M.S. Program in Information Systems

Students receive a B.S. in Information Systems and an M.S. in Information Systems.

### Admission to the Program

Admission is open to undergraduates in any field who have an overall grade point average of at least 3.00 (on a 4.00 scale) at the time of admission and a grade point average of 3.30 in the 30 credit hours taken immediately prior to admission.

### Requirements

- All requirements for the B.S. in Information Systems
- All requirements for the M.S. in Information Systems

Two courses, 55.511 Concepts in Systems and Information (3) and 55.515 Human Factors in Information Systems (3), may be applied to both degrees.

Students must complete the necessary prerequisites (one semester of mathematics, 55.606 Quantitative Analysis for Information Systems, 55.210 Introduction to Computer Information Systems, and a computer language course) before taking 55.511 and 55.515, each of which must be completed with a grade of B or better.

## Combined B.S./M.S. Program in Mathematics and Computer Science

Students receive a B.S. in Mathematics and an M.S. in Computer Science.

### Admission to the Program

Admission is open to undergraduate mathematics majors with a minimum grade point average of 3.20 (on a 4.00 scale). Applicants must have completed the following by the end of the junior year:

- 40.280 Introduction to Computer Science I (4)
- 40.281 Introduction to Computer Science II (3)
- 40.282 Assembly-Language Programming (4)
- 40.340 Data Structures and Algorithms (3)
- 40.341 Organization of Programming Languages (3)

## Degree and Major Requirements

- A total of 89 credit hours of course work
- An approved tool of research
- Comprehensive examination
- Thesis option: 6 hours of 40.797 Master's Thesis Seminar in Computer Science and an oral defense of the thesis
- Nonthesis option: 6 hours of research courses as approved by the department

## Course Requirements

- All requirements for the B.S. in Mathematics
- 40.280 Introduction to Computer Science I / N (4)
- 40.281 Introduction to Computer Science II / N (3)
- 40.282 Assembly-Language Programming (4)
- 40.340 Data Structures and Algorithms (3)
- 40.341 Organization of Programming Languages (3)
- Eighteen credit hours of computer science courses at the 500 level or above, including 40.540 Computer System Organization and Programming but not 40.520 Algorithms and Data Structures or 40.521 Design and Organization of Programming Languages
- Six credit hours of course work to fulfill the thesis or nonthesis option

## M.S. in Computer Science

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have an adequate undergraduate preparation or experience in computer science. Students entering the program without the appropriate background will be expected to take certain undergraduate courses as a prerequisite.

One way of satisfying the prerequisites for the Computer Science master's program is through the Bridge Program, which allows students with a bachelor's degree in any discipline to qualify for graduate enrollment by taking a collection of computing and computing-related courses.

The Bridge Program in Computer Science requires the completion of a maximum of seven courses; however, courses may be waived if a student has substantial knowledge of the material covered in the courses. Two Bridge courses may be counted toward the master's degree requirements. Students who complete the Bridge Program will receive a certificate of completion. For more information, students should contact the University Programs Administration and Advising Center at (202) 885-2500.

## Degree and Major Requirements

A total of 30 credit hours of approved graduate work:

- Mathematics, Statistics, French, German, Japanese, or Russian as a tool of research
- Comprehensive examination, 40.060
- Thesis option: 6 hours of 40.797 Master's Thesis Seminar in Computer Science and an oral defense of the thesis

Nonthesis option: 6 hours of independent research projects, seminars, or other research courses approved by the department

## Course Requirements

- 40.520 Algorithms and Data Structures (3) (or equivalent)
- 40.521 Design and Organization of Programming Languages (3) (or equivalent)
- 40.540 Computer System Organization and Programming (3) (or equivalent)
- Three additional computer science courses at the 500 level or above
- Two additional courses in computer science, or a related field, as approved by the department chair
- Six credit hours of course work to fulfill the thesis or nonthesis option

Course selections are subject to advance approval by the student's adviser.

## M.S. in Information Systems

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have taken 55.210 Introduction to Computer Information Systems or equivalent, a semester of college mathematics, and have the ability to program in a structured higher-level language, such as COBOL or Pascal.

One way of satisfying the prerequisites for the Information Systems master's program is through the Bridge Program, which allows students with a bachelor's degree in any discipline to qualify for graduate enrollment by taking a collection of computing and computing-related courses.

The Bridge Program in Information Systems requires the completion of a maximum of seven courses; however, courses may be waived if a student has substantial knowledge of the material covered in the courses. Four Bridge courses may be counted toward the master's degree requirements. Students who complete the Bridge Program will receive a certificate of completion. For more information, students should contact the University Programs Administration and Advising Center at (202) 885-2500.

## Degree and Major Requirements

A total of 36 credit hours of approved graduate work:

- 55.606 Quantitative Analysis for Information Systems (3) as a tool of research
- A comprehensive examination (see thesis and nonthesis options)
- Thesis option: 6 credit hours of 55.797 Master's Thesis Seminar and an oral comprehensive examination
- Nonthesis option:  
55.665 Analysis and Design Workshop (3)  
55.760 Information Systems Seminar (3)

## Course Requirements

- 55.511 Concepts in Systems and Information (3)
- 55.515 Human Factors in Information Systems (3)

- 55.560 Systems Analysis and Design (3)
- 55.662 Information Systems Management (3)
- 55.635 Workshop in Computer Systems Applications: Database Management Systems (3)
- or
- 40.570 Data Management Systems (3)
- Four related courses approved by a faculty adviser
- Six credits of thesis or nonthesis option

Courses taken to satisfy tool of research and thesis or nonthesis option must be passed with grades of B or better.

## Weekend M.S. in Information Systems

Students in this weekend program participate together as a learning community in 12 sequenced courses. Most courses run for three weekend sessions (Friday and Saturday). Students complete the degree requirements and comprehensive exam in 24 months.

For more information call the University Programs Administration and Advising Center at (202) 885-2500.

## M.S. in Statistical Computing

For a description of this program, see listing under Statistics in this chapter.

## Graduate Certificate in Information Systems

### Admission to the Program

Requires a bachelor's degree from an accredited college or university, the equivalent of 40.260 Introduction to Computing or 55.210 Introduction to Computer Information Systems, a semester of college mathematics, and ability to program in a structured higher-level language, such as COBOL or Pascal.

### Course Requirements (18 credit hours)

- 55.511 Concepts in Systems and Information (3)
- 55.515 Human Factors in Information Systems (3)
- 55.560 Systems Analysis and Design (3)
- 55.606 Quantitative Analysis for Information Systems (3)
- 55.662 Information Systems Management (3)
- One of the following:  
55.635 Workshops in Computer Systems Applications:  
Database Management Systems (3)  
40.570 Data Management Systems (3)

## Graduate Certificate in Information Resources Management (IRM)

The Information Resources Management (IRM) graduate certificate program prepares students to understand the intrinsic worth of information that is automated, and how to build, maintain, distribute, and manage information systems in organizations.

The American University's IRM certificate program satisfies the guidelines of the U.S. General Services Administration's IRM Certificate Program requirements.

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have taken 55.210 Introduction to Computer Information Systems or equivalent, a semester of college mathematics, and have the ability to program in a structured higher-level language such as Cobol, Pascal, or C.

One way of satisfying the prerequisites for the Information Resources Management certificate program is through the Bridge Program, which allows students with a bachelor's degree in any discipline to qualify for graduate certificate enrollment by taking a series of computing and computing-related courses. For more information about the Bridge Program, students should contact the University Programs Administration and Advising Programs Office (UPAC) at (202) 885-2500.

### Course Requirements (18 credit hours)

#### Core

- 55.511 Concepts in Systems and Information (3)
- 55.661 Telecommunications and Management Information (3)
- 55.668 Data Resources Management (3)
- 55.670 Information Resources Management (3)

#### Electives

- Six credits selected from the following:  
55.515 Human Factors in Information Systems (3)  
55.560 Systems Analysis and Design (3)  
55.640 Economics of Information Systems (3)  
55.667 Information Engineering (3)

Students must complete the courses with a grade point average of 3.00 or higher. All courses must be completed with a grade of C or better.

# Economics

**Chair** Robert Lerman

## Full-Time Faculty

**Professor** B. Bergmann, I.E. Broder, W.D. Bowles (Emeritus), T.F. Dernburg (Emeritus), J. Epstein, R. Feinberg, R. Hahnel, W. Hunsberger (Emeritus), R. I. Lerman, R. Müller, L. Sawers, D. Schydrowsky, P.C. Thanh, H.M. Wachtel, A. Waterston (Emeritus), J.H. Weaver (Emeritus), J. D. Wisman

**Associate Professor** R.A. Blecker, M. Hazilla, T. Husted, A. Isaac, J. Lane, J. Willoughby

**Assistant Professor** M. Floro, F. Graham, M. Meurs, W. Park

**Instructor** S. Headlee

The Department of Economics at the American University emphasizes economic studies that enable graduates to participate actively in the process of finding answers to the important economic questions that face our society and other nations of the world. Emphasis is placed on viewing economic problems in both their domestic and international contexts.

The university's location in Washington, D.C. enables it to assist students and graduates in obtaining employment and internships in several of the world's most important economic institutions, including the World Bank, the International Monetary Fund, research institutes, and the treasury, labor, and commerce departments. Many of our graduates are able to find policy making positions in the public and private sectors of both the United States and other nations.

The Department of Economics adopts a pluralistic approach to economics education that includes neoclassical and Keynesian economics, historical and institutional economics, and political economy. International economic issues receive special emphasis, as do such socially important topics as the economics of gender. The neoclassical and Keynesian traditions form the core of economic theory that our majors are expected to master. The study of economic history, the history of economic thought, and alternative economic methodologies alert students to divergent perspectives and to the role of institutions. Courses in Marxian economic theory, in comparative economic policies, and in post-Keynesian economics widen the range of fields available. Courses in specialized fields of economics deal with monetary economics, public finance and government, economic policy, development, the structure of U.S. industry, international trade and finance, and trends in earnings and employment.

## Undergraduate Programs

There are two economics majors, Economics and Economic Theory. Within each major, students may choose a general or international track. The Economic Theory major provides rigorous training in economic theory, econometrics, and quantitative skills and prepares the student for a research position or graduate work in economics. The Economics major combines economic theory with applied fields and is designed to allow the student the flexibility of

a double major with other departments in the College of Arts and Sciences, the School of International Service, the Kogod College of Business Administration, the School of Public Affairs and the School of Communication.

## Admission to the Programs

Normal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and the approval of the department undergraduate adviser. The department counsels freshmen and transfer students.

## University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

## General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

## B.A. in Economics

### Tracks

General or International

### Major Requirements

- A total of 43-55 credit hours with grades of C or better

### Course Requirements

#### Core

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 42.202 Basic Statistics /N (4)

#### General Track

- Six Economics (19.xxx) courses at the .300 level or above:

At least one course must be related to the economics of other countries or international economics. No more than 6 credit hours may be fulfilled by Washington Economic Policy Semester courses, economics courses from American University study abroad programs or the honors senior capstone course (19.498/.499 Senior Honors I/II).

**Note:** Independent reading and study courses, internships and co-ops require permission of the undergraduate adviser to count toward this requirement.

- Related Course Requirement: three courses selected from the following:  
03.xxx Anthropology (.300 level or above)

## 108 The College of Arts and Sciences

- 10.xxx, 11.xxx, 12.xxx, 13.xxx, 14.xxx Business Administration (14.240 Principles of Accounting I and .300 level or above)  
17.xxx Communication (.300 level or above)  
29.xxx History (.300 level or above)  
33.xxx International Relations (.300 level or above)  
40.xxx Computer Science (.200 level or above)  
41.xxx Mathematics (.200 level or above)  
42.xxx Statistics (.200 level or above)  
53.xxx Government (.300 level or above)  
57.xxx Psychology (.300 level or above)  
60.xxx Philosophy (.300 level or above)  
65.xxx Sociology (.300 level or above)  
73.xxx Justice (.300 level or above)

*Note:* The specific courses must be approved by the undergraduate adviser.

### International Track

- International Economics Sequence:  
19.371 International Economics: Trade (3)  
19.372 International Economics: Finance (3)
- One of the following:  
19.302 Comparative Economics Systems (3)  
19.307 Political Economy of Economic Development (3)  
19.552 Economic Transition in Eastern Europe and New Independent States (3)  
19.555 The Political Economy of Latin American Development (3)
- Two additional Economics (19.xxx) courses at the .300 level or above (excluding 19.311 International Economics)
- One of the following:  
12.300 Fundamentals of International Business (3)  
12.302 International Finance (3)  
33.385 U.S. Foreign Economic Policy (3)  
33.465 Contemporary International Trade and Investment Policies (3)  
33.466 Contemporary International Monetary, Finance, and Energy Policies (3)
- Related Course Requirement: two courses selected from the following:  
03.xxx Anthropology (.300 level or above)  
10.xxx, 11.xxx, 12.xxx, 13.xxx, 14.xxx Business Administration (14.240 Principles of Accounting I and .300 level or above)  
17.xxx Communication (.300 level or above)  
29.xxx History (.300 level or above)  
33.xxx International Relations (.300 level or above)  
37.xxx Language and Foreign Studies (.300 level or above)  
40.xxx Computer Science (.200 level or above)  
41.xxx Mathematics (.200 level or above)  
42.xxx Statistics (.200 level or above)  
53.xxx Government (.300 level or above)  
57.xxx Psychology (.300 level or above)  
60.xxx Philosophy (.300 level or above)  
65.xxx Sociology (.300 level or above)  
73.xxx Justice (.300 level or above)

*Note:* The specific courses must be approved by the undergraduate adviser.

- 10–12 credits or demonstration of intermediate level or higher competence in one modern foreign language
- A minimum of 3 credits from the following as a Capstone:  
19.392 Cooperative Education Field Experience or  
19.491 Internship (placement in international economics)  
19.480 Research Seminar in Economics (3) (research project on international issues)  
Economics courses taken as part of a study abroad program

## B.A. in Economic Theory

### Tracks

General or International

### Major Requirements

- A total of 53–65 credit hours with grades of C or better

### Course Requirements

#### Core

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 19.310 Introduction to Econometrics (3)
- 41.211 Applied Calculus I /N (4)  
or  
41.221 Calculus I /N (4)
- 42.202 Basic Statistics /N (4)

#### General Track

- One of the following:  
19.340 Applied Research Methods in Economics (3)  
40.260 Introduction to Computing /N (4)  
40.280 Introduction to Computer Science I /N (4)
- One of the following:  
19.371 International Economics: Trade (3)  
19.372 International Economics: Finance (3)
- One of the following:  
19.308 History of Economic Development (3)  
19.317 Political Economy (3)  
19.319 Economic Development of the United States (3)  
19.320 History of Economic Ideas (3)
- Four Economics (19.xxx) courses at the 300 level or above
- Related Course Requirement: three courses selected from the following:  
03.xxx Anthropology (.300 level or above)  
10.xxx, 11.xxx, 12.xxx, 13.xxx, 14.xxx Business Administration (14.240 Principles of Accounting I and .300 level or above)  
17.xxx Communication (.300 level or above)

- 29.xxx History (.300 level or above)
- 33.xxx International Relations (.300 level or above )
- 40.xxx Computer Science (.200 level or above)
- 41.xxx Mathematics (.200 level or above)
- 42.xxx Statistics (.200 level or above)
- 53.xxx Government (.300 level or above)
- 57.xxx Psychology (.300 level or above)
- 80.xxx Philosophy (.300 level or above)
- 65.xxx Sociology (.300 level or above)
- 73.xxx Justice (.300 level or above)

- 41.xxx Mathematics (.200 level or above)

*Note:* The specific courses must be approved by the undergraduate adviser.

- 19.480 Research Seminar In Economics (3) (research project on international issues)

### International Track

- International Economics Sequence:  
19.371 International Economics: Trade (3)  
19.372 International Economics: Finance (3)
- One of the following:  
19.302 Comparative Economics Systems (3)  
19.307 Political Economy of Economic Development (3)  
19.552 Economic Transition in Eastern Europe and New Independent States (3)  
19.555 The Political Economy of Latin American Development (3)
- Two additional Economics (19.xxx) courses at the .300 level or above (excluding 19.311 International Economics)
- One of the following from other departments:  
12.300 Fundamentals of International Business (3)  
12.302 International Finance (3)  
33.385 U.S. Foreign Economic Policy (3)  
33.465 Contemporary International Trade and Investment Policies (3)  
33.466 Contemporary International Monetary, Finance, and Energy Policies(3)
- Related Course Requirement: two additional courses selected from the following:  
03.xxx Anthropology (.300 level or above)  
10.xxx , 11.xxx, 12.xxx, 13.xxx, 14.xxx Business Administration (14.240 Principles of Accounting I and .300 level or above)  
17.xxx Communication (.300 level or above)  
29.xxx History (.300 level or above)  
33.xxx International Relations (.300 level or above )  
37.xxx Language and Foreign Studies (.300 or above)  
40.xxx Computer Science (.200 level or above)  
41.xxx Mathematics (.200 level or above)  
42.xxx Statistics (.200 level or above)  
53.xxx Government (.300 level or above)  
57.xxx Psychology (.300 level or above)  
60.xxx Philosophy (.300 level or above)  
65.xxx Sociology (.300 level or above)  
73.xxx Justice (.300 level or above)

*Note:* The specific courses must be approved by the undergraduate adviser.

- 10-12 credits or demonstration of intermediate level or higher competence in one modern foreign language
- 8 credits from the following as a Capstone:  
19.392 Cooperative Education Field Experience or  
19.491 Internship (placement in international economics)  
19.480 Research Seminar in Economics (3) (research project on international issues)  
Economics courses taken as part of a study abroad program

### Study Abroad Programs

The American University World Capitals Program offers study abroad programs in which students take courses, participate in internships, and interact with public officials and political leaders. Economic policy is the focus of the semester in Paris, which may be used to fulfill the Capstone requirement. Students wishing to use courses from other study abroad programs to count as their capstone must obtain approval of the undergraduate adviser.

### Special Opportunities

A chapter of Omicron Delta Epsilon, the economics honor society, is active on campus. Membership requires an overall grade point average of 3.25 and a grade point average of 3.50 in economics courses. See the undergraduate adviser for further eligibility requirements.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Communication, Legal Institutions, Economics, and Government (CLEG)

An Interdisciplinary major in Communication, Legal Institutions, Economics, and Government is available. Consult the School of Public Affairs chapter of this publication.

## Washington Semester in Economic Policy

This special one semester undergraduate program draws on the unique environment of Washington, D.C. to introduce students to governmental policy making as it relates to international and domestic economic policy through seminars, internships, and research. Students earn undergraduate credit which may be applied toward the requirements for a bachelor's degree.

### Admission to the Program

The program is open to students of the American University and to students of affiliated institutions from across the country. Requirements for admission to the program are: (1) nomination by a Washington Semester Program faculty representative; (2) a minimum grade point average of 2.50 (on a 4.00 scale); (3) introductory courses in economics; and (4) at least second-semester sophomore standing at the time of participation.

### Requirements

- 19.393 Washington Economic Policy Semester Seminar I (4)
- 19.394 Washington Economic Policy Semester Seminar II (4)
- 19.390 Independent Reading Course in Economics (4)
- or
- 19.391 Washington Economic Policy Semester Internship (4)
- One course from the regular university evening course offerings

## Minor in Economics

### Requirements

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- Six additional credit hours in economics at the 300 level or above (not including Independent study, Washington Semester courses, internships, or co-ops)

## B.A./M.A. in Economics

This program enables students to complete the B.A. and M.A. in Economics in five years. Students will be admitted formally to M.A. status only if they have completed all requirements for the B.A. in Economics with a minimum cumulative grade point average of 3.00. Students should apply to the program in their junior year. Students in this program will not be required to take the Graduate Record Examination.

### Degree and Major Requirements

- All requirements for the B.A. degree with a major in economics
- All requirements for the M.A. degree with a major in economics

Students may apply 6 credit hours of course work in economics to satisfy the requirements of both degrees.

## GRADUATE PROGRAMS

There are three master's programs in economics: the M.A. in Applied Economics, the M.A. in Development Banking, and the M.A. in Economics. There is a Ph.D. in

Economics with tracks in Economics and Political Economy.

### Admission to the Master's Programs

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record and two letters of recommendation. The Graduate Record Examination is recommended. Admission is not automatic for students who qualify and may be limited by programmatic constraints.

A student whose undergraduate background does not meet the standards for admission may be considered for admission after completing 12 credit hours of approved graduate course work in nondegree status with a grade point average of at least 3.00 (on a 4.00 scale). 19.500 Price Theory, 19.501 Income Theory, and 19.505 Quantitative Analysis of Economic Models must be taken within these 12 hours.

## M.A. in Applied Economics

### Degree and Major Requirements

- A total of 33 credit hours of approved graduate work  
Course work includes 12 hours of core requirements, at least 6 hours of course work within one field of concentration, and 15 hours of electives, including 6 hours of research. Prerequisite credit does not count toward the degree. All courses must be taken for grades (not pass/fail).  
No more than 40 percent of course work and no more than 6 hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.
- One comprehensive examination in the student's field of specialization. Students are expected to make their first attempt at their field comprehensive before they have completed 24 credit hours. Two retakes are allowed. Fields are listed under the Ph.D. program.
- Research seminar or independent research with a grade of B or better is required.

### Course Requirements

#### Prerequisite Courses

- 19.300 Price Theory (3)
- 19.301 Income Theory (3)  
(19.603 Introduction to Economic Theory (3) may be substituted for 19.300 and 19.301)
- 42.202 Basic Statistics /N (4)
- 41.211 Applied Calculus I /N (4)

Note: Waiver of these prerequisites may be granted for qualified persons with comparable prior education or experience. No graduate credit is given for these courses.

#### Core Courses

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.505 Quantitative Analysis of Economic Models (3)
- 19.522 Econometrics (3)



or

19.723 Econometric Methods (3) (Prerequisite:  
42.502 Introduction to Mathematical  
Statistics) or an approved substitute

- At least 6 credit hours in a field of concentration.
- Eighteen credit hours in electives approved by the faculty adviser, including 6 credit hours of research seminar or independent research with grades of B or better.

Students must maintain a B average (3.00) in all graduate course work.

## M.A. in Development Banking

### Degree and Major Requirements

- A total of 36 credit hours of approved graduate work: Course work includes 27 credit hours of core courses and 9 credit hours in an area of concentration. Foundation requirement credit does not count toward the degree.

No more than 40 percent of course work and no more than 6 hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.

- One of two areas of concentration:  
Choice of concentration depends on the student's goals, interests, and, if applicable, the needs of the student's sponsoring organization. In certain cases, upon recommendation of the faculty and approval by the program adviser, students may substitute a course from outside the concentration for one of their courses in an area. Students choose three courses from among those offered in the chosen area of concentration. At least one of the courses must be a workshop and one a research seminar.

- One comprehensive examination covering both core courses and those from the student's concentration area; two retakes are allowed.  
Students should consult the program director during the semester before scheduling the comprehensive examination.

- Research projects in two 700-level seminars or independent study research projects, with prior approval of the program director

### Course Requirements

#### Foundation Requirements

- 14.603 Accounting Concepts and Applications (3)
- 19.306 Money and Banking (3)
- 19.603 Introduction to Economic Theory (3)  
or  
19.300 Price Theory (3) and  
19.301 Income Theory (3)
- 42.202 Basic Statistics /N (4)  
or  
19.310 Introduction to Econometrics (3)

Waiver of these foundation requirements may be granted for well-qualified persons.

#### Core Courses

- 13.805 Financial Management (3)
- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.505 Quantitative Analysis of Economic Models (3)
- 19.522 Econometrics (3)
- 19.564 Development Finance (3)
- 19.610 Cost Benefit and Planning (3)
- 19.632 Development Banking (3)
- 19.660 Survey of Economic Development (3)

#### Areas of Concentration

##### *Development Lending*

- 19.633 Development-Project Cycle (Workshop) (3)
- 19.634 Negotiating Development Assistance (3)
- 19.672 International Economics: Finance (3)
- 19.788 Seminar in Economic Development (3)

##### *Development Financing*

- 13.665 Financial Statement Analysis (3)
- 19.531 Financial Markets (3)
- 19.635 International Capital Markets Workshop (3)
- 19.671 International Economics: Trade (3)
- 19.784 Seminar in International Trade and Finance (3)

#### Research

- Six credit hours in two 700-level seminars or independent study projects with approval of the program director. Seminars taken for the concentration area requirement may be used to satisfy the research requirement.

## M.A. in Economics

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work: Course work includes 12 hours of core requirements, at least 6 hours of course work within one field of concentration, and 12 hours of electives, including 6 hours of research. Prerequisite credit does not count toward the degree. All courses must be taken for grades (the pass/fail option is not permitted).

No more than 40 percent of course work and no more than 6 hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.

- Two comprehensive examinations: 19.01A Contemporary Economic Theory and a field examination based on courses in the student's field of specialization. Candidates are expected to take the theory examination before they have completed their first 18 credit hours. Candidates are expected to take the field examination after passing their theory examination and before completing 24 credit hours. Students may take each com-

prehensive twice. Fields are listed under the Ph.D. program.

- Thesis or two nonthesis seminars or two independent research projects which have been approved as a non-thesis option, or one seminar and one independent research project, with a minimum grade of B.

## Course Requirements

### Prerequisite Courses

- 19.300 Price Theory (3)
- 19.301 Income Theory (3)  
(19.603 Introduction to Economic Theory (3) may be substituted for 19.300 and 19.301)
- 42.202 Basic Statistics /N (4)
- 41.211 Applied Calculus /N (4)

Waiver of these prerequisites may be granted for qualified persons with comparable prior education or experience. No graduate credit is given for these courses.

### Core Courses

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.505 Quantitative Analysis of Economic Models (3)
- 19.522 Econometrics (3)  
or  
19.723 Econometric Methods (3) (Prerequisite: 42.502 Introduction to Mathematical Statistics)  
or an approved substitute

Note: 19.500, 19.501, and 19.522 (or approved substitute) must be completed within the first 12 credit hours and with grades of B or better

19.521 Mathematical Economic Analysis (3) is recommended

- At least 6 credit hours in a field of concentration
- Twelve credit hours including 6 hours in thesis or non-thesis seminars or independent research with grades of B or better

## Ph.D. in Economics

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination (GRE) general tests (verbal, math, analytical). The GRE test in economics is recommended. Admission is based on academic record, test scores, and two letters of recommendation. Applicants who are not native speakers of English must submit the results of TOEFL (Test of English as a Foreign Language). In general, a B average for previous undergraduate work or a B+/A- average for previous graduate work, whichever is more recent, is the minimum required. (Most students admitted have higher grade averages.) As a rule, students are admitted for the fall semester only; application must be made by the previous February 1 in order to be considered for financial support.

## Tracks

Economics and Political Economy

### Degree and Major Requirements

- A total of 72 credit hours of approved graduate work: No more than 40 percent of course work and no more than 6 hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.
- Tools of research: One of the following groups of courses (must be completed with grades of B- or better)
  - 19.504 Economic Thought (3)
  - 19.521 Mathematical Economic Analysis (3)
  - 19.507 American Economic Development (3)  
or  
19.508 European Economic Development (3)
  - 19.723 Econometric Methods (3)
  - 19.724 Seminar in Econometrics (3)
- An oral qualifying examination in economic theory no later than one semester before the comprehensive examinations are taken. This examination is waived for students who have completed certain theory courses. See adviser for details.
- Four comprehensive examinations:
  - Economics track:* four comprehensive examinations are required: 19.01B, 19.01C, and comprehensive examinations in two elective fields
  - Political Economy track:* four comprehensive examinations are required: 19.006, 19.06A, and comprehensive examinations in two elective fields
  - Comprehensive Examination Fields:*
    - 19.01B Contemporary Economic Theory: Price
    - 19.01C Contemporary Economic Theory: Income
    - 19.002 History of Economic Thought
    - 19.005 History of Economic Development
    - 19.006 Theory of Political Economy I
    - 19.06A Theory of Political Economy II
    - 19.007 Economic Growth and Development
    - 19.008 Labor Economics
    - 19.009 International Economics
    - 19.010 Economics of Gender
    - 19.011 Comparative Economic Systems and Soviet-type Economies
    - 19.013 Monetary Economics
    - 19.014 Public Finance and Fiscal Policy
    - 19.016 Mathematical Economics
    - 19.017 Econometrics
    - 19.018 Industrial Organization
- See adviser for specific course requirements for each comprehensive examination field.
- Dissertation and oral comprehensive
  - The student obtains approval for the dissertation topic from an interested faculty member in the field who then becomes chair of the dissertation committee. This committee, especially the chair, supervises the preparation of the dissertation and reviews it when it is completed. An oral comprehensive examination on the dissertation proposal is given by the committee before its submission for approval.
  - Students must register for 3 credits of 19.798 Dissertation Proposal Seminar, usually in their third or fourth

year, with the aim of completion of a draft dissertation proposal. Additional credits of 19.799 Doctoral Dissertation Seminar are taken while students complete their proposals and prepare dissertations. The dissertation seminar 19.799 must be taken pass/fail. After the completed dissertation is submitted to the committee, a final oral examination is held.

### Special Opportunities

The Simon Nadel Dissertation Fellowship and the Center of Excellence Dissertation Fellowship are awarded annually for the most promising dissertation proposals. The Simon Nadel Prize of one hundred dollars is awarded annually to the student who has written the most outstanding comprehensive examination, as judged by the faculty of the department.

## Graduate Certificate in Applied Economics

### Admission to the Program

Open to students with a bachelor's degree

### Course Requirements

#### Prerequisites

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 42.202 Basic Statistics /N (4) (may be waived on the basis of previous education or experience)

#### Requirements

- 19.500 Price Theory (3)
  - 19.501 Income Theory (3)
  - 19.522 Econometrics (3)
  - Twelve credit hours from the following:
    - 19.521 Mathematical Economic Analysis (3)
    - 19.532 Monetary Theory and Policy (3)
    - 19.541 Public Economics I (3)
    - 19.551 Theory of International Trade and Multinational Corporations (3)
    - 19.571 Labor Economics: Theory (3)
    - 19.610 Cost Benefit and Planning (3)
    - 19.660 Survey of Economic Development (3)
- Other approved electives may be substituted

**Associate Professor** L. Clark, A.S. Ferren, F.E. Huber (Emeritus), C.E. Messersmith (Emeritus), D.D. Miller (Emeritus), R. Ralph (Emerita)

**Assistant Professor** L. Fox, E. Smith, D. Thompson

The School of Education conducts rigorous and innovative preparation for aspiring teachers and other education professionals as well as diverse research projects that focus on both national and international educational issues. Graduate and undergraduate students have opportunities to acquire directed career preparation in research and teaching through internships in educationally-oriented national associations, to receive early and continuous contact with children and youth in a wide variety of public and private school settings, or to work in renowned university-related schools for students who are learning disabled or emotionally disturbed. Limited enrollment and selective admissions criteria allow the School of Education to emphasize early and sustained contact with children and youth with study and supervision under master teachers in curricula especially tailored to individual career goals.

Undergraduates in the School of Education may major in Elementary Education, or take a sequence of courses leading to certification in secondary education. Undergraduate minors in Education Studies and Special Education are offered. A combined Bachelor's/M.A. program enables students to earn a B.A. in Elementary Education or a bachelor's degree with a program of study in secondary education and an M.A. in Education with a specialization in Special Education: Learning Disabilities. Graduates are eligible for teacher certification in most states.

Undergraduates who want experience in nonschool settings may do so in education associations, local and federal government agencies, publishing companies, education-for-the-handicapped agencies, and others through internships in education. The teacher preparation programs benefit from the rich resources of the Washington area, where the headquarters of many national education organizations, the education agencies of the federal government, and several urban and suburban school systems are located.

Students who wish to pursue graduate studies may select from several programs. The M.A. in Education offers specializations in Educational Administration, International Education, Special Education: Learning Disabilities, and Specialized Studies, a track for specially designed programs of study. The specialization in Special Education: Learning Disabilities emphasizes close and continuing relationships with local schools, practicum experience under master teachers, innovative teaching methodologies, and working experience with special-needs students of primary school age through adults.

The M.A. in Elementary Education provides liberal arts and science graduates with a program of study directed to certification for teaching in elementary schools.

The Master of Arts in Teaching (M.A.T.) program enables liberal arts and science graduates to continue course work in their academic discipline as well as in professional education courses relevant to careers and certification in secondary school teaching.

Doctoral programs are offered in Educational Administration and Counseling and Development.

## School of Education

Dean Myra Sadker

### Full-Time Faculty

**Professor** S. Burr (Emeritus), C.A. Gross (Emeritus), B.A. Hodinko (Emeritus), F. Holliday (Emeritus), F. Jacobs, P.D. Leedy (Emeritus), N.J. Long (Emeritus), D. Sadker, M. Sadker, S.L. Smith, C.A. Tesconi, Jr.

# B.A. in Elementary Education

## Admission to the Program

Due to the number of requirements necessary for certification, it is recommended that undergraduates planning to teach see an adviser in the School of Education and declare an intended major in elementary education as early as possible, and no later than the end of their sophomore year.

Admission to the university and declaration of a major do not automatically admit one to a program in teacher education. After declaring an intended major in elementary education, students must also be admitted to the School of Education's Teacher Education Program.

- 1) Students desiring admission to the Teacher Education Program must successfully complete the following professional education courses:  
21.200 Schools and Society 4:2 (3)  
21.320 Psychology of Education (3)  
21.321 Field Experience: Observation and Analysis (1)

Elementary Education majors normally enroll in these courses during the freshman or sophomore year, while those planning to teach in secondary schools should enroll no later than the fall semester of the junior year.

- 2) Students submit applications to the School of Education for admission to the Teacher Education Program. Application forms are available at the School of Education. Admission requirements at this stage are:  
(a) a cumulative grade point average of 2.70 or higher,  
(b) letters of recommendation by faculty, and  
(c) recommendation by the School of Education Teacher Education Committee.  
Elementary education students must be admitted to the Teacher Education Program prior to enrollment in the elementary methods block (21.552-21.556), and before completing 75 credits.
- 3) Transfer students must successfully complete the prerequisite courses and maintain a cumulative average of 2.70 at the American University to be admitted to the Teacher Education Program.

## Continuous Selection

To remain in the Teacher Education Program, a student must maintain a cumulative grade point average of 2.70 and receive satisfactory evaluations on methods and field placements.

In order to be permitted to enroll in 21.599 Student Teaching, students must have a cumulative grade point average of 2.70 or higher and receive a positive evaluation from faculty supervisors and the Teacher Education committee. Evaluation of field performance may involve videotaping classroom lessons. Students do student teaching in the District of Columbia and the greater Washington metropolitan area.

## University Requirements

- A total of 120 credit hours
- Six credit hours of college writing

- Three credit hours of college mathematics or the equivalent by examination

## General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Consult with an adviser from the School of Education as early as possible to discuss the coordination of General Education Requirements with certification requirements.

## Major Requirements

- A total of 58 credit hours of major course requirements with grades of C or better
- All students are required to take a national teacher examination as designated by the School of Education prior to graduation.

## Course Requirements (58 credits)

- 21.200 Schools and Society /S 4:2 (3)
- 21.250 Mathematics for Elementary School Teachers (3)
- 21.319 Children's Literature: Multicultural and International Approaches (3)
- 21.320 Psychology of Education (3)
- 21.321 Field Experience: Observation and Analysis (1)
- 21.330 Speech and Generic Teaching Methods (3)
- 21.362 Classroom Management (3)
- 21.371 Foundations of Reading Instruction (3)
- 21.541 Foundations of Special Education for Exceptional Children (3)  
or  
21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
- 21.552 The Teaching of Mathematics in Elementary Education (2)
- 21.553 The Teaching of Language Arts in Elementary Education (2)
- 21.554 The Teaching of Social Studies in Elementary Education (2)
- 21.555 The Teaching of Reading in Elementary Education (3)
- 21.556 The Teaching of Science in Elementary Education (3)
- 21.599 Student Teaching (15)
- Two of the following courses:  
21.212 Methodology of Sign Language /A (3)  
21.325 Global Education (3)  
21.389 Sexism in School and Society: National and International Perspectives /S (3)  
21.390 Independent Reading Course in Education (1-6)  
21.402 Methods of Teaching Children with Learning Disabilities (3)

- 21.490 Independent Study Project in Education (1-6)
- 21.491 Internship in Education (6-9)
- 21.519 Computers in Education (3)
- 67.450 Rotating Topics in Theatre:  
Children's Theatre (3)  
Creative Dramatics (3)
- 57.350 Child Psychology (3)

Other courses may be substituted if approved by an elementary education adviser, the director of the undergraduate program, or the dean of the School of Education.

### **Liberal Arts and Science Requirements for Teacher Certification**

To qualify for teacher certification, students must have completed a total of 36 elective credits from the specific curricular areas listed below. These requirements may overlap with University and General Education requirements, if passed with a grade of D or better. Consult a School of Education adviser for more information.

- 41.150 Finite Mathematics (3) or a higher-level mathematics course
- Three additional credit hours in mathematics or statistics and probability
- Six credit hours in literature
- Three credit hours in music
- Three credit hours in art
- Three credit hours in health and nutrition
- Three credit hours in health and fitness
- Six credit hours in history including 3 credit hours in U.S. history
- Three credit hours in the biological science
- Three credit hours in the physical sciences

*Note:* Completion of this or a similar program is required to meet most state certification requirements in elementary education. The professional courses and practica have been carefully designed, but graduation does not assure one a position as a teacher. The American University does not license one to teach in any state; only state government agencies grant this privilege. Students are responsible for selecting courses to obtain certification in their chosen states and the District of Columbia. Certification requirements should be examined no later than the beginning of the student's sophomore year. Consult an adviser regarding certification matters.

*Note also:* Students are responsible for providing their own transportation to observations, practicum, and student teaching assignments. Attempts will be made to honor individual requests for specific school assignments, but such placements cannot be guaranteed.

### **University Honors Program**

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the school and, upon the school's recommendation, graduate with University Honors in the major. The school's Honors coordinator advises students in the University Honors Program regarding school op-

tions. See the section on the University Honors Program in this catalog for further details.

### **Accreditation**

The program is approved by the National Council for Accreditation of Teacher Education (NCATE) and the National Association of State Directors of Teacher Education and Certification (NASDTEC). Consult *A Student's Guide to Undergraduate Programs in the School of Education* for further information. All students are required to take a national teacher examination as designated by the School of Education.

## **Secondary Education Certification**

Students major in the field they plan to teach and take a formal sequence of School of Education courses required for certification. All students must meet all Teacher Education Program application requirements and deadlines. Undergraduates planning to teach must consult an adviser in the School of Education as soon as possible, and no later than the beginning of the junior year.

### **Admission to the Program**

Admission to the Teacher Education Program includes completion of prerequisite courses, completion of a faculty approved program of study, a cumulative grade point average of 2.70 with a 3.00 in the major, application to the Teacher Education Program, and approval by the Teacher Education Committee.

### **Course Requirements**

- 21.200 Schools and Society /S 4:2 (3)
- 21.320 Psychology of Education (3)
- 21.321 Field Experience: Observation and Analysis (1)

*Note:* 21.200, 21.320, and 21.321 must be taken prior to application for admission to the Teacher Education Program.

- 21.362 Classroom Management (3)
- 21.371 Foundations of Reading Instruction (3)  
or  
21.520 Reading, Writing, and Literature across the Curriculum (3)
- 21.522 Principles of Effective Instruction (3)
- 21.540 Methods and Materials in Secondary Education (3)  
(or other methods courses offered by arts and sciences departments and approved by the School of Education)
- 21.541 Foundations of Special Education for Exceptional Children (3)  
or  
21.545 Overview of all Exceptionalities: The Arts in Special Education (3)
- 21.599 Student Teaching (12) (appropriate section)

- All students are required to take a national teacher examination as designated by the School of Education prior to graduation.

**Note:** Students are responsible for providing their own transportation to observations, practicum, and student teaching assignments. Attempts will be made to honor individual requests for specific school assignments, but such placements cannot be guaranteed.

#### Continuous Selection

To remain in the Teacher Education Program, a student must maintain a cumulative grade point average of 2.70 and receive satisfactory evaluations on methods and field placements.

In order to be permitted to enroll in 21.599 Student Teaching, students must have a cumulative grade point average of 2.70 or higher, and receive a positive evaluation from faculty supervisors and the Teacher Education Committee. Evaluation of field performance may involve videotaping classroom lessons. Students do student teaching in the District of Columbia and the greater Washington metropolitan area.

#### Accreditation

The following secondary teacher education programs are approved for accreditation by both the National Council for the Accreditation of Teacher Education (NCATE) and the National Association of State Directors of Teacher Education and Certification (NASDTEC): English, French, German, Spanish, Mathematics, Biology, Drama, and Dance. Accredited by NASDTEC only: Chemistry, Physics, and Comprehensive Social Studies.

All students are required to take a national teacher examination as designated by the School of Education.

### Minor in Education Studies

The minor in Education Studies accommodates undergraduate students interested in the study of education as a liberal or social science discipline. It serves well students who intend to pursue graduate study in education or related fields, those who wish to explore career opportunities in education and related fields, and those whose primary job and career opportunities are enhanced through Education Studies.

#### Admission to the Program

Formal admission to the minor requires a cumulative grade point average of 2.50 (on a 4.00 scale). Students are typically admitted to the minor at the end of the sophomore year or after four semesters of study but before the completion of six semesters. The School of Education faculty counsels students who inquire about the minor.

#### Minor Requirements

- A total of 21 credit hours (seven courses) with grades of C or better

#### Course Requirements

- 21.200 Schools and Society (3)
- 21.320 Psychology of Education (3)
- Six credit hours from the following:

- 21.205 Education for International Development (3)
- 21.319 Children's Literature (3)
- 21.325 Global Education (3)
- 21.389 Sexism in School and Society (3)
- Nine credit hours from the following:
  - 21.490 Independent Study Project in Education (1-6)
  - 21.491 Internship in Education (6-9)
  - 21.496 An appropriate Selected Topics (.496) course may be used to fulfill this requirement with permission of the student's adviser (3)
  - 21.503 Theories and Practices in Special Education (3)
  - 21.519 Computers in Education (3)
  - 21.521 Foundations of Education (3)
  - 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
  - 21.551 Counseling Skills in Training and Development (3)
  - 21.561 Introduction to Student Development in Higher Education (3)
  - 21.566 Cultural Factors in Higher Education (3)
  - 21.583 Curriculum Construction and Program Design (3)
  - 21.687 Analysis of Instruction and Training (3)

### Minor in Special Education

#### Admission to the Program

Formal admission to the minor requires a cumulative grade point average of 2.70 (on a 4.00 scale), a grade point average of 3.00 in the major, and successful completion (C or better) of:

- 21.200 Schools and Society (3)
- 21.320 Psychology of Education (3)
- 21.321 Field Experience: Observation and Analysis (1)

#### Requirements

- Eighteen credit hours from the following:
  - 21.402 Methods of Teaching Children with Learning Disabilities (3)
  - 21.490 Independent Study in Education (3-6) or
  - 21.491 Internship in Education (6-9)
  - 21.502 Methods of Managing Pupils with Behavior Disorders (3)
  - 21.541 Foundations of Special Education for Exceptional Children (3)
  - 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
- Other courses approved by education adviser, the director of the undergraduate program, or the dean of the School of Education.

### Combined Bachelor's/M.A. Programs in Education

Students receive a B.A. in Elementary Education or a B.S. or B.A. with a program of study in secondary education, and an M.A. in Education with a specialization in Special Education: Learning Disabilities.

## Admission to the Program

Students should apply to the M.A. program in the second semester of the junior year. Applicants must have a grade point average of 3.00 (on a 4.00 scale) in major and minor courses, must have completed satisfactorily the following:

- 21.402 Methods of Teaching Children with Learning Disabilities (3)
- 21.502 Methods of Managing Pupils with Behavior Disorders (3)
- 21.541 Foundations of Special Education for Exceptional Children (3) or
- 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)

and

must be recommended by the director of the program in Special Education: Learning Disabilities

## Requirements

- All requirements for the B.A. in Elementary Education or B.A. or B.S. with Secondary Education Certification
  - All requirements for the undergraduate minor in Special Education
  - All courses required for the M.A. in Education track in Special Education: Learning Disabilities
  - 21.502 Methods of Managing Pupils with Behavior Disorders (3)
  - 21.541 Foundations of Special Education for Exceptional Children (3)
  - 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
- 21.541 and 21.545 are taken at the undergraduate level but apply to the requirements for both the B.A. and M.A.

## M.A. in Education

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record General Examination or the Miller Analogies Test. Additional admission requirements may be imposed by the School of Education. Applicants are encouraged to consult with the school before applying.

### Tracks

Educational Administration  
International Education  
Special Education: Learning Disabilities  
Specialized Studies

### Degree and Major Requirements

- The M.A. in Education requires from 30 to 39 credit hours of approved graduate work
- All tracks include comprehensive examinations. Consult program adviser for details.
- All tracks include research, practicum, or Internship.

## Course Requirements

### Educational Administration

Students are strongly encouraged to consult an adviser in the School of Education prior to submitting an application for the track in Educational Administration.

A total of 33 credit hours:

- Fifteen credit hours in the major field including:
  - 21.631 Fundamentals of Management in Educational Organizations (3)
  - 21.639 Effective Leadership Skills (3)
- Twelve credit hours of approved electives
- Six credit hours to satisfy the nonthesis option

### International Education

There are two tracks within International Education: Development Education and Global and Intercultural Education.

A total of 36 credit hours:

#### *Development Education*

- 21.635 Training Program Design (3)
- 21.650 Proseminar: International Education (3)
- 21.678 Comparative and International Education (3)
- 21.679 Nonformal Education and Development (3)
- 33.637 International Development (3)

#### *Global and Intercultural Education*

- 21.583 Curriculum Construction and Program Design (3)
- 21.625 Global Education (3)
- 21.650 Proseminar: International Education (3)
- 21.678 Comparative and International Education (3)
- 33.642 Cross-Cultural Communication (3)

Research requirement for both tracks:

- Six credit hours in:
  - 21.792 In-Service Training Project: Internship in Education (6)
  - or
  - 21.525 Introduction to Statistics, Tests, and Measurement (3) and
  - 21.693 Personnel and Program Evaluation (3) or
  - 21.790 Educational Research (3)
  - or
  - two courses at the 600 level or above with the adviser's permission
- Fifteen credit hours from a list of recommended courses or those approved by an adviser

### Special Education: Learning Disabilities

The Special Education: Learning Disabilities track is accredited by the National Council for the Accreditation of Teacher Education (NCATE) and NASDTEC (National Association of State Directors of Teacher Education and Certification). All students are required to take a national teacher examination as designated by the School of Education.

## 118 The College of Arts and Sciences

A total of 36 credit hours:

- 21.502 Methods of Managing Pupils with Behavior Disorders (3)
- 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)  
or
- 21.541 Foundations of Special Education for Exceptional Children (3)
- 21.605 Methods of Psychoeducational Assessment for Learning Disabilities and Emotional Disturbance (3)
- 21.606 Theories and Methods of Diagnostic and Remedial Mathematics (3)
- 21.607 Research Seminar in Special Education (3)
- 21.620 Theories of Educational Psychology (3) or an elective approved by the student's adviser
- 21.644 Language Development and Remediation (3)
- 21.645 Learning Disabilities I (3)
- 21.646 Learning Disabilities II (3)
- 21.671 Foundations of Reading: Diagnosis and Remediation (3)
- 21.792 In-Service Training Project: Internship with Learning Disabled Children (3-6)

### Specialized Studies

- A total of 30 credit hours  
This track is to be used for specially designed master's programs; consult a School of Education adviser for further information.

## M.A. in Elementary Education

The M.A. in Elementary Education is designed to prepare students with bachelor's degrees in the liberal arts and sciences for careers and teaching certification at the elementary level.

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Miller Analogies Test or Graduate Record Examination.

### Degree and Major Requirements

- Thirty-nine credit hours of approved graduate work
- Thirty-three credit hours of course work
- Six credit hours of student teaching including a student teaching seminar
- Comprehensive examination
- All students are required to take a national teacher examination as designated by the School of Education prior to graduation.

### Course Requirements

- 21.521 Foundations of Education (3)
- 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)

- 21.552 The Teaching of Mathematics in Elementary Education (2)
- 21.553 The Teaching of Language Arts in Elementary Education (2)
- 21.554 The Teaching of Social Studies in Elementary Education (2)
- 21.555 The Teaching of Reading in Elementary Education (3)
- 21.556 The Teaching of Science in Elementary Education (3)
- 21.599 Student Teaching (6)
- 21.619 Children's Literature: Multicultural and International Approaches (3)
- 21.620 Theories of Educational Psychology (3)
- 21.662 Classroom Management (3)
- 21.671 Foundations of Reading: Diagnosis and Remediation (3)
- One elective (3)

Students must demonstrate competency in the liberal arts and sciences. Student undergraduate transcripts will be evaluated individually; based on this evaluation students may be required to take additional course work in the liberal arts and sciences.

*Note:* All course work must be approved by an adviser.

### Continuous Selection

In order to be permitted to enroll in 21.599 Student Teaching, students must receive a positive evaluation from the Teacher Education Committee, a grade of B- or better in 21.521 and 21.620, and grades of B or better in the methods block (21.552-21.556). Evaluation of field performance may involve videotaping classroom lessons. Students do student teaching in the District of Columbia and the greater Washington metropolitan area.

### Accreditation

The M.A. in Elementary Education is accredited by NASDTEC (National Association of State Directors of Teacher Education and Certification). All students are required to take a national teacher examination as designated by the School of Education.

## Master of Arts in Teaching (M.A.T.)

The M.A.T. is designed for the student with a bachelor's degree in the liberal arts and sciences who wishes to acquire teaching certification in secondary education.

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Miller Analogies Test or Graduate Record Examination and must complete sufficient course work in an academic area traditionally taught in secondary schools, such as biology, chemistry, English, dance, mathematics, social studies, science, French, Spanish, theatre, and physics.



## Degree and Major Requirements

- A total of 39 credit hours of approved graduate work, including 12 hours in a liberal arts major, 21 hours in education, and 6 hours in student teaching
- Comprehensive examination
- All students are required to take a national teacher examination as designated by the School of Education prior to graduation.

## Course Requirements

- 21.520 Reading, Writing, and Literature across the Curriculum (3)
- 21.521 Foundations of Education (3)
- 21.522 Principles of Effective Instruction (3)
- 21.540 Methods and Materials in Secondary Education (3)  
(or other approved methods courses offered by arts and sciences departments)
- 21.541 Foundations of Special Education for Exceptional Children (3)
- 21.599 Student Teaching (6)
- 21.620 Theories of Educational Psychology (3)
- 21.662 Classroom Management (3)
- Five electives, usually taken in the academic discipline of the designated teaching area (15)

## Continuous Selection

In order to be permitted to enroll in 21.599 Student Teaching, students must receive a positive evaluation from the Teacher Education Committee, a grade of B- or better in 21.521 and 21.620, and grades of B or better in the methods courses 21.522 and 21.540. Evaluation of field performance may involve videotaping classroom lessons. Students do student teaching in the District of Columbia and the greater Washington metropolitan area.

## Accreditation

The Master of Arts in Teaching (M.A.T.) is accredited by NASDTEC (The National Association of State Directors of Teacher Education and Certification). All students are required to take a national teacher examination as designated by the School of Education.

## Doctoral Programs in Education

The School of Education accepts candidates for the degrees of Doctor of Education and Doctor of Philosophy with specializations in Educational Administration and in Counseling and Development (Note: there is currently a moratorium on admissions to the doctoral program in Counseling and Development). See also the Mathematics section of this publication for Ph.D. in Mathematics Education. Applicants should consult with the school for information regarding other areas of emphasis.

## Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should hold a master's degree and must earn a satisfactory score on the

Graduate Record General Examination or the Miller Analogies Test. Specific standards may be obtained from the School of Education.

## Degree and Major Requirements

- At least 72 credit hours of approved graduate work
- Ph.D. candidates: two tools of research: one in statistics or educational statistics (see note below) and a second in computer language, sign language, a foreign language, or another field approved by the school
- Ed.D. candidates: one tool of research in statistics, educational statistics (see note below), computer language, sign language, a foreign language, or another field approved by the school

*Note:* The research tool in educational statistics consists of 21.525 Introduction to Statistics, Tests, and Measurement (or approved equivalent taken at another university) and 42.514 Statistical Methods in which a grade of B (3.00) or better must be earned.

- Four comprehensive examinations: two written, one oral, one written or oral:

*Counseling and Development:* 21.011 Counseling, 21.017 Student Development, 21.019 Counseling and Student Development (oral), and one additional examination either in or outside the School of Education.

*Educational Administration:* Candidates for either the Ph.D. or Ed.D. degree must take comprehensive examinations in educational administration. Candidates for the Ph.D. must take comprehensive examinations in two support fields. The second support field examination may be taken either inside or outside the school. Candidates for the Ed.D. must take examinations in two support fields, both of which may be in the School of Education.

Candidates should consult their advisers concerning the comprehensive examinations. The candidate must make the necessary arrangements with the appropriate department for examinations taken outside the School of Education. Comprehensive areas outside the school include, but are not limited to: clinical psychology, history, management, sociology, government, and statistics.

- Dissertation and oral defense. The dissertation research must be directed by a member of the full-time faculty.

## Course Requirements

- 21.790 Educational Research (3)
- One graduate level course in statistical methods beyond the master's requirement  
Students whose dissertations involve quantitative research must take additional course work in statistics.
- Twelve hours of dissertation research

Specific courses are required for all doctoral study areas. Students must have an approved program of study that reflects these requirements. All programs of study must be approved by the dean of the School of Education.

# Health and Fitness

**Chair** Margaret J. Safrit

## Full-Time Faculty

**Professor** R.H. Fraley (Emeritus), D.S. Gelser (Emeritus), V.E. Hawke (Emerita), J.W. Hubbell (Emerita), R.C. Karch, M.J. Safrit

**Associate Professor** B.G. Coward, P. O'Connor-Finn, L.G. Nyce, B.J. Reimann

**Assistant Professor** P. Meltzer

The Department of Health and Fitness provides opportunities for students to learn about and experience aspects of fitness, movement, and sport that last throughout a lifetime of physical activity. The diversity of courses emphasizes the development of physical skills and the acquisition of cognitive understanding. Students are urged to participate in these courses early in their college years so that they might acquire the skills and knowledge to reduce the pressure of a busy, stress-filled schedule.

To achieve these goals, students need to attain the levels of fitness and skills that are the requisites for sports activities. In addition to psychomotor skill development, students should acquire an understanding of fitness and wellness as they apply to their individual lifestyles.

Fitness activities and sport skills that can be enjoyed throughout life should be part of the education of the American University student. Students are encouraged to explore the interdisciplinary relationship between courses of this department and those of other schools and departments of the university.

## M.S. in Health/Fitness Management

The primary objective of the Health/Fitness Management Program is to provide a competency-based, multidisciplinary academic track for individuals dedicated to assuming leadership positions within the health/fitness industry. The curriculum integrates managerial skills with scientific and clinical knowledge of exercise physiology, human biochemistry, behavioral psychology, and nutrition.

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Management Admissions Test (GMAT) or the Graduate Record Exam (GRE) and must satisfy program prerequisites in human anatomy and physiology and exercise physiology.

The program is open to students with varied undergraduate backgrounds and has few science-related academic prerequisites. The academic record and experience of each applicant will be thoroughly reviewed by the faculty.

International applicants who are fluent in written and spoken English are welcomed and encouraged to apply. To be considered for admission, applicants must meet university requirements for writing and speaking English.

All applicants must submit an additional reference and a supplementary graduate application directly to the De-

partment of Health and Fitness. For additional information, call (202) 885-3020.

### Degree and Major Requirements

- A total of 42 credit hours of graduate work
- One tool of research
- Thesis or internship
- One written and one oral comprehensive examination

### Course Requirements

- 10.610 Organizational Theory and Behavior (3)
- 15.506 Human Physiological Chemistry (3)
- 21.551 Counseling Skills in Training and Development (3)
- 49.610 Applied Human Physiology and Testing I (3)
- 49.615 Applied Human Physiology and Testing II (3)
- 49.618 Strategic Planning in Health Promotion (3)
- 49.640 Nutrition for Health/Fitness (3)
- 49.790 Selected Topics in Health/Fitness Management (3)
- 49.791 Research Methodology in Health/Fitness (3)
- 49.792 In-Service Training in Health/Fitness Management (3)
- or
- 49.797 Master's Thesis Seminar in Health/Fitness Management (3)
- 54.654 Managing Organization Change (3)
- 55.511 Concepts in Systems and Information (3)
- 57.570 Behavioral Medicine (3)
- A statistics tool-of-research examination or a graduate-level statistics course completed with a B or better (3 credit hours approved by the department: e.g., 42.514 Statistical Methods).

### Special Opportunities and Facilities

The branches, agencies, and offices of the federal government and the many centers and organizations dealing with health, education, business, and physical fitness provide numerous internship and cooperative-education opportunities for students in the Health/Fitness program. Within minutes of the campus are: the Department of Health and Human Services, the National Institutes of Health, the National Institute of Aging, the President's Council on Physical Fitness and Sports, and the National Library of Medicine.

The Master of Science program in Health/Fitness Management is an integral part of The American University's National Center for Health/Fitness. Students in the program share many of the center's resources and facilities. These include experiential learning opportunities in the areas of comprehensive health promotion programming, cost benefit research, and strategic planning initiatives for organizations interested in worksite health promotion. In addition, the center has a human performance laboratory with the state-of-the-art diagnostic equipment for assessment of cardiovascular fitness and pulmonary function; a physical fitness center fully equipped to accommodate all forms of human conditioning; a body composition labora-

tory with modern hydrostatic weighing facilities; a recording studio for production of health/fitness-promotion materials and performance evaluations; and computer communication systems.

# History

**Chair** Roger Brown

## Full-Time Faculty

**Professor** C. Anthon (Emeritus), R.L. Belsner, R.D. Breitman, R.H. Brown, D. Gondos (Emerita), J. Joughlin (Emerita), A.M. Kraut, A.J. Lichtman, C.C. McLaughlin (Emeritus), J. Oppenheim

**Associate Professor** V. French, I. Klein, J.A. Malloy, T. Murphy, P.S. Nadell, M. Kazin, P. Kuznick

**Assistant Professor** V. Schwartz

**Distinguished Professor** B. Reagon

## Research Faculty

**Research Professor** C. Beveridge

**Landmarks Assistant Professor** M. Neth

History is the record of the past and the academic discipline of those making a serious study of the past. Studying history means examining the full range of human endeavor: the arts and sciences; politics and the spread of political ideas across boundaries of space and time; economic and technological change; and the relationships of individuals and groups to their communities and cultures. Anyone concerned with the contemporary world cannot comprehend its problems without some awareness of how it differs from past eras.

As part of the humanities, history includes all forms of creative thought and expression. At the same time, it requires as much rigor in the use and analysis of evidence as any social science.

Both the undergraduate and graduate programs in history emphasize interdisciplinary study and close contact between students and faculty. Students have access to such great research collections as the Library of Congress, the National Archives, and the National Library of Medicine. Internships are available at historical agencies, such as the National Museum of American History, the National Archives, and the Holocaust Museum, or with research projects such as the department's publication of the Fredrick Law Olmsted papers.

In addition to preparing students for careers in teaching and scholarship, or for admission to law school, the Department of History's rigorous training in research, writing, and intellectual problem-solving equips graduates for excellent placement in business, government, public-interest associations, journalism, and many other professions.

## B.A. in History

### Admission to the Program

Formal admission to the major requires departmental approval.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 39 credit hours with grades of C or better including at least 15 credit hours at the 300 level or above.

The department recommends that before enrolling in a course at the 300 level or above, students should complete a suitable introductory course, or attain equivalent knowledge.

### Advanced Placement

Prospective history majors may qualify for 3 advanced placement credits toward the major in both American and European history (for a total of 6 credits), provided the appropriate AP examination grade is a 4 or 5. Students cannot receive AP credit towards the major if they also take the comparable survey courses in either American history (29.205 and 29.206) or European history (29.110 and 29.111).

Students may receive 6 credit hours for each AP examination (12 credit hours total) toward the University requirement of 120 hours.

### Course Requirements

- 29.480 Major Seminar I (3)
- 29.481 Major Seminar II (3)
- One course in ancient or medieval history
- One course in Russian, Asian, African, or Latin American history
- One course in U.S. history at the 300 level or above
- One course in Western European or British history at the 300 level or above
- Additional courses to make a total of 39 credit hours in history (which may include 34.205 Ancient and Medieval Jewish Civilization and 34.206 Modern Jewish Civilization). At least 20 of the 39 credits must be taken at The American University; at least 15 of the 39 must be at the 300-level or above.

### Special Opportunities

Dorothy Ditter Gondos Award; Internships

## University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To fulfill requirements for University Honors in History, students may enroll in 500-level seminars, or in University Honors Colloquia taught by history faculty members, or may arrange an Honors supplement to a regular course, or an Honors independent study in history. All students must complete a two-semester sequence in the major seminar, as a "capstone" experience. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Minor in History

### Requirements

- One course in Western European or British history at the 300 level or above
- One course in U.S. history at the 300 level or above
- One course in the history of an area other than those mentioned above
- Four more courses in history, including at least two at the 300 level or above. The department requires that all 300-level courses be taken at The American University. At least 12 of the 21 credit hours in history must be taken at The American University. The university requires that no more than 6 hours in history, if credited toward the major in another department, may be counted towards a minor in history.

## Combined B.A./M.A. Program in History

The program enables students to complete both the B.A. and M.A. in history in five years.

### Admission to the Program

Students will be admitted formally to M.A. status only if they have completed all requirements for the B.A. in History with strong grades (3.00 cumulative grade point average on a 4.00 scale and a 3.20 in history courses). Students should apply for admission to the program in their junior year. Those students moving to M.A. standing will be exempt from the usual Graduate Record Examination requirement.

### Requirements

- All requirements for the B.A. in History
- All requirements for the M.A. in History

Students may apply 6 credit hours of course work in history to satisfy the requirements of both degrees.

## M.A. in History

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination (Verbal,

Quantitative, and Analytic) and must have made a substantial beginning in one tool of research. Admission is based on academic record, test scores, letters of recommendation from two professors with whom work was taken recently, and favorable judgment by the department graduate committee and chair.

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- One of the following as tool of research: foreign language, quantitative methods, statistics, computer science, or a methodology approved by the graduate committee of the Department of History
- One comprehensive examination
- Thesis option: a satisfactory thesis, completed through six hours of 29.797 Master's Thesis Seminar and one research seminar (with a grade of B or better)
- Nonthesis option: two substantial research papers done in research seminars (with grades of B or better)

### Course Requirements

- Two sections of 29.500 Studies in History with grades of B or better. New graduate students are normally expected to take at least one section of 29.500 in their first year of study.
- Two colloquia from the following with grades of B or better:
  - 29.720 Colloquium in Modern European History since 1789 I (3)
  - 29.721 Colloquium in Modern European History since 1789 II (3)
  - 29.727 Colloquium in United States History I: to 1865 (3)
  - 29.728 Colloquium in United States History II: since 1865 (3)
 or approved substitute
- Thesis option:
  - 29.797 Master's Thesis Seminar (6)
  - Three credit hours from the following:
    - 29.751 Research Seminar in European History (3)
    - 29.752 Research Seminar in United States History (3)
 or approved substitute
- Nonthesis option:
  - Six credit hours from the following:
    - 29.751 Research Seminar in European History (3)
    - 29.752 Research Seminar in United States History (3)
 or approved substitute
- Courses selected to fulfill either (1) a single-field program in United States or modern European history, or (2) a two-field program with a major field (18 credit hours) and a minor field (12 credit hours)

Note: No more than 50 percent of course work may be done in 300/600 level courses.

### Special Opportunities

- Internships at the National Archives, U.S. government agencies, and local historical societies.

- Landmarks Graduate Fellowship (See the chapter on Financial Aid in this catalog.)

## Ph.D. in History

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants normally have completed an M.A. in History or a related field, have earned a satisfactory score on the Graduate Record Exam (Verbal, Quantitative, and Analytic), and have made a substantial beginning in one tool of research. Admission is based on academic record, letters of recommendation from two professors with whom work was taken recently, a sample of recent written work of substantial length (M.A. thesis, research paper, or interpretative essay) and favorable judgment by the department's graduate committee and department chair.

### Degree and Major Requirements

- A total of 72 (including 30 for the M.A.) credit hours of approved graduate work
- Two of the following as tools of research: foreign languages, quantitative methods, statistics, computer science, or a methodology approved by the graduate committee of the Department of History
- Four comprehensive examinations: three written and one oral. Comprehensive examinations are offered in the areas of ancient history, United States history, modern European history, British history, Latin American history, modern Asian history, Russian history, and diplomatic history. One comprehensive examination must be in one of the following: a historical field outside the student's main area of concentration, a comparative cross-disciplinary field, or a field in another discipline.
- Dissertation and oral defense (Dissertation work is not usually available in ancient, Russian, or Latin American history.)
- Advancement to candidacy after completion of comprehensive examinations and at the time the dissertation proposal is approved

### Course Requirements

- Two sections of 29.500 Studies in History with grades of B or better (students receiving an M.A. in History from The American University are required to take only one section). New graduate students are normally expected to take at least one section of 29.500 in their first year of study.
- Two of the following with grades of B or better (students receiving an M.A. in History from The American University are required to take only one):  
29.720 Colloquium in Modern European History since 1789 I (3)  
29.721 Colloquium in Modern European History since 1789 II (3)  
29.727 Colloquium in United States History I: to 1865 (3)  
29.728 Colloquium in United States History II: since 1865 (3)  
or approved substitute

- Two research seminars for 6 credit hours from the following with grades of B or better:  
29.751 Research Seminar in European History (3)  
29.752 Research Seminar in United States History (3)  
or approved substitute
- At least 12 hours of dissertation seminar

### Special Opportunities

- Internships, including the Department of History's multivolume publication project of the Frederick Law Olmsted papers.
- Landmarks Graduate Fellowship (See the chapter on Financial Aid in this catalog.)

## Information Systems

### B.S. in Computer Information Systems

### M.S. in Information Systems

See program descriptions under the Department of Computer Science and Information Systems in this chapter.

## Interdepartmental Science

**Coordinator** Chair of the department of the major science or mathematics area

**Faculty** Faculties of the departments of Biology, Chemistry, Computer Science and Information Systems, Mathematics and Statistics, Physics, Psychology, and the School of Education

### B.S. in Distributed Science

#### Admission to the Program

No unique admission requirements

#### Tracks

Biology, Chemistry, Mathematics, Physics, and Psychology

#### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

#### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five the curricular areas.

- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 74 credit hours with grades of C or better

### Course Requirements

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- Two courses selected from:  
anthropology (03.xxx)  
economics (19.xxx)  
philosophy (60.xxx)  
40.280 Introduction to Computer Science I /N (4)  
40.281 Introduction to Computer Science II /N (3)  
57.115 Experimental Foundations of  
Psychology /N 5:1 (3)
- Twenty-six credit hours in one area of science or mathematics
- Twelve credit hours in a second area of science or mathematics
- Eight credit hours in a third area of science or mathematics
- Eight credit hours in a fourth area of science or mathematics
- Six additional credit hours in either the first or second area of science or mathematics

Courses should be taken in the sequence specified by each department.

The following courses may *not* be used as credit toward meeting the requirements for this major:

- 09.100 Great Experiments in Biology /N 5:1
- 15.100 Chemistry for the Modern World /N 5:1
- 41.211 Applied Calculus I
- 41.212 Applied Calculus II
- 51.100 Physics for the Modern World /N 5:1

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Jewish Studies Program

**Director** Pamela S. Nadell

### Full-Time Faculty

**Associate Professor** P.S. Nadell

Faculty of other schools and departments of the university and from the community also teach in the program.

The program in Jewish Studies recognizes that Jews and Judaism constitute a distinct yet integral component of the heritage of Western civilization. Jewish Studies courses, therefore, analyze the civilization of the Jews and its various cultural and religious expressions from the patriarchal period to the present.

Since Jewish Studies embraces the total experience of the Jewish people, its courses span the spectrum of the arts, humanities, and the social sciences. Moreover, since dynamic contact with many other religions and cultures influenced the development of Jewish civilization, Jewish Studies courses view Jews and Judaism within the broader context of these dominant societies. Courses in Jewish Studies enrich one's understanding of American and world Jewries. The majors and minors in Jewish Studies prepare students for leadership within and service to the Jewish community, and for a greater understanding of our pluralistic society.

### Morris Gewirtz Series in Jewish Thought

Established in 1975 through an endowment grant from the family of the late Morris Gewirtz, noted Washington Jewish philanthropist, in memory of his commitment to Jewish education. It includes a two-semester survey of the development of Jewish civilization and specialized studies such as modern Jewish philosophy.

### Dr. Everett and Marian Gordon Studies in Judaism's Interfaith Dimensions

Established in 1976 through an endowment grant from noted Washington orthopaedic surgeon Dr. Everett Gordon and his wife Marian. Provision is made for courses and lectures which uncover the common roots of Western religion and compare Judaism with Christianity and Islam.

### Dr. Everett and Marian Gordon Scholarship Awards in Jewish Studies

Also established in 1976 through the endowment grant from Dr. Everett Gordon and his wife Marian. Funding is provided for awards for and printing of outstanding senior theses in Jewish Studies and for work and other scholarships for classroom performance by students in courses in Jewish Studies, with preference given to students without previous background in Jewish Studies.

### Jerrold and Jane Goodman Scholarships

Established in 1979 through an annual grant from Yablick Charities, Inc. Scholarships are awarded annually to outstanding students in Jewish Studies.

### Jewish Chautauqua Society Lectureships

The Resident Lectureship Committee of the Jewish Chautauqua Society (under the auspices of the National Federation of Temple Brotherhoods) endows two courses each year in the Jewish Studies Program.

### Special Opportunities

- Since Washington, D.C. is a center of Jewish organizational life, internships with local Jewish organizations devoted to community relations, religious activities, Israel, social welfare, etc. are offered for credit.
- A double major in Jewish Studies correlated with a major in another department or school of the university.
- Jewish studies minor for majors in the School of Education leading to a certificate for teaching in Jewish schools.
- Preparation for careers in Jewish communal service.

## B.A. in Jewish Studies

### Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and the approval of the director of the program.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A minimum of 39 credit hours in Jewish Studies, including a senior thesis

### Course Requirements

- 34.205 Ancient and Medieval Jewish Civilization /S 2:2 (3)
- 34.206 Modern Jewish Civilization /S (3)
- 36.216 Hebrew, Intermediate Modern I /A (3)
- 36.217 Hebrew, Intermediate Modern II /A (3) or equivalent proficiency in Hebrew as approved by the Jewish Studies Program faculty.  
*Note:* 36.116 Hebrew, Elementary Modern I /A (3) and 36.117 Hebrew, Elementary Modern II /A (3) (or equivalent) are prerequisites for the language requirement but do not count toward the major.
- 34.481 Senior Thesis in Jewish Studies I (3)
- 34.482 Senior Thesis in Jewish Studies II (3)

- One course in Jewish literature
- One course in Jewish thought
- One course in contemporary Jewish life
- Twelve additional credit hours in Jewish Studies

Eighteen of the total 39 hours must be at the 300 level or above. Some courses, with the approval of the program director, may be related courses in other units of the university.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Minor in Jewish Studies

- A minimum of 18 credit hours in Jewish Studies, with a grade of C or better; 9 of the 18 hours must be at the 300 level or above.

### Course Requirements

- 34.205 Ancient and Medieval Jewish Civilization /S 2:2 (3)
- 34.206 Modern Jewish Civilization /S (3)
- One course in Jewish literature
- One course in Jewish thought
- One course in contemporary Jewish life
- At least one additional course in Jewish Studies

## Language and Foreign Studies

**Chair** John Schillinger

### Full-Time Faculty

**Professor** N. Baron, E.I. Burkart (Emeritus), G.S. Burkart (Emerita), J. Child, V. Medish (Emeritus), H. Mueller (Emeritus), H. Noel (Emeritus), J. Schillinger, B.F. Steinbrucker

**Associate Professor** M.J. Betts (Emerita), V.Z. Borkovec (Emerita), M. Charbonneau (Emerita), P.R. Côté, J. Goldin (Emerita), N. Harris, M.A.G. Hood (Emerita), A. Oliver, H. Pineda (Emeritus), D. Rodamar, O. Rojer, O. Salazar (Emeritus), J. Wisman, Z. Wythe (Emerita)

**Assistant Professor** F. Graziano, A. Israeli, D. Meson, M. Nishimura, E. Oktay (Emerita), D. Shepherd

**Visiting Assistant Professor** C. Tomei, T. Waldspurger

**Instructor** M. Corredor, C. Cruse-Saunders, N. Finan, M. Manley, T. Mast, B. McMahon, P. Vidal

In an increasingly complex world that grows smaller every day, the study of foreign languages, literature, and cultures is of vital importance. Learning the ways other nations live and think furthers understanding among peoples and cultures. The Department of Language and Foreign Studies offers extensive study in French, German, Russian, and Spanish foreign language and culture, as well as a joint area and language program with the School of International Service and a joint degree program with the School of Communication. In addition, language courses in Chinese, Hebrew, Italian, Hindi, Polish, Japanese, and Latin are usually offered each academic year.

With its large diplomatic community, Washington is ideally situated to offer students the opportunity to exchange ideas and enhance their language skills with native speakers. The university can also draw from a large international student body in the exchange of cultures and languages. Extensive language practice is available through the Cooperative Education Program which provides international work-study for academic credit. For French, German, Russian, and Spanish degree candidates, internships are available in the local area.

A knowledge of a foreign or second language clearly offers greater employment opportunities today. Many areas of business, industry, and government service consider a background in foreign language a career must. Recent graduates of the department have been employed in a variety of organizations and fields including the Department of State, Library of Congress, National Security Agency, Voice of America, and National Academy of Sciences, as well as international import and export firms, public and private high schools, and research and development firms.

### **Description of the Language Program**

**First Year 100-Level Intensive and Non-Intensive Elementary Courses** Emphasis on mastering structure for oral and written communication. Basics of phonology and morphology. Situational approach. Perfection of audiolingual skills. Development of good pronunciation and speech patterns. Five hours of class instruction per week (two and a half hours for non-intensive courses) supplemented by individual language laboratory work. A native speaker of a foreign language cannot enroll in or earn credit toward graduation in a first year course.

**Second Year 200-Level Intensive and Non-Intensive Intermediate Courses** Emphasis on cultural patterns and contrasts between cultures. Refinement of basic language skills. Study of more complex grammatical structures. Introduction of syntax. Expansion of vocabulary in a cultural context. Intensive and extensive reading. Controlled writing projects. Transition from manipulation of patterns to development of communicative skills. Appropriate use of audiovisuals. Five hours of class instruction per week (two and a half hours for non-intensive courses) supplemented by individual language laboratory work. A native speaker of a foreign language cannot enroll in or earn credit toward graduation in a second year course.

**Third Year 300-Level Intensive and Non-Intensive Conversation and Composition Courses** Emphasis on style and style level. Expansion of vocabulary through extensive reading of literary excerpts, current newspapers, and magazines, assisted by frequent use of audiovisual

aids. Perfection of oral skills. Review of grammatical structures. Creative use of language. Study of semantic problems, idioms, clichés, and figurative speech. Five hours of class instruction per week (two and a half hours for non-intensive courses).

**300- and 400-Level Topics Courses** Selected topics courses taught in the foreign language. Designed for both majors and nonmajors. May be repeated for credit provided different subjects are covered.

**300- and 400-Level Civilization Courses** Survey of a foreign civilization. Emphasis on the historical development of literature. Topical lectures. Designed for both majors and nonmajors.

## **B.A. in French, German, Russian, or Spanish Studies**

### **Admission to the Program**

Students must be approved by the department for formal admission to the major. Language course work may be waived if high school or other preparation warrants it. Placement will be made in consultation with a departmental adviser.

### **Majors**

French, German, Russian, or Spanish Studies

### **University Requirements**

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### **General Education Requirements**

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### **Major Requirements**

- French, German or Spanish major: A total of 45 credit hours with grades of C or better
- Russian major: A total of 36 credit hours with grades of C or better
- Prerequisite completion of elementary language level; intermediate level for Russian major
- One of the following field concentrations:
  - 1) Twelve credit hours in a second foreign language at any level
  - 2) Twelve credit hours in area studies in the major field at the 300 level or above
  - 3) Teacher education leading to certification to teach a foreign language (French, German, or Spanish) at the secondary level
  - 4) An approved minor or major related to the major field; for example, a minor in another language, business administration, mass media studies, international business, economics, political science, his-



tory, sociology, literature, anthropology, or international studies

### Teacher Certification

Students preparing for French, German, or Spanish teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education section in this catalog for information.

### Course Requirements

#### French

- Six to 10 hours of:  
36.222 French, Intermediate I / A (3) and  
36.223 French, Intermediate II / A (3)  
or  
36.224 French, Intensive Intermediate I / A (5) and  
36.225 French, Intensive Intermediate II / A (5)
- 37.324 French Intensive Conversation and Composition I / A (5) (may be replaced by other 300- or 500-level courses if warranted by language proficiency)
- 37.325 French Intensive Conversation and Composition II / A (5) (may be replaced by other 300- or 500-level courses if warranted by language proficiency)
- 37.428 *Civilisation Française I* (3)
- 37.429 *Civilisation Française II* (3)
- Three credit hours of linguistics (38.xxx) as approved by adviser
- Remaining credit hours at the 300 level or above with at least 3 credit hours at the 400 level and 6 credit hours at the 500 level

#### German

- 36.232 German, Intermediate I / A (3)
- 36.233 German, Intermediate II / A (3)
- 37.332 German Conversation and Composition I / A (3) (may be replaced by other 300- or 400-level courses if warranted by language proficiency)
- 37.333 German Conversation and Composition II / A (3) (may be replaced by other 300- or 400-level courses if warranted by language proficiency)
- 37.438 German Civilization I (3)
- 37.439 German Civilization II (3)
- Three credit hours of linguistics (38.xxx) as approved by adviser
- Remaining credit hours chosen from 300-400-level courses, independent study projects, internships, and topics courses in German studies

#### Russian

- 37.342 Russian Conversation and Composition I / A (3)
- 37.343 Russian Conversation and Composition II / A (3)
- Twenty-one credit hours from the following:  
37.341 Russian Media and Political Translation (3)

- 37.442 Russian Literary Translation (3)
- 500-level Russian literature, topics, or linguistics courses
- 37.390 Independent Reading Course in Language and Foreign Studies (1-6)
- or
- 37.490 Independent Study Project in Language and Foreign Studies (1-6)

- Three credit hours of linguistics (38.xxx) as approved by adviser
- Additional courses to fulfill credit hour requirements selected in consultation with adviser.

#### Spanish

- Six to 12 credit hours of intermediate Spanish
- 37.352 Spanish Conversation and Composition I / A (3) (may be replaced by other 300- or 500-level course if warranted by language proficiency)
- 37.353 Spanish Conversation and Composition II / A (3) (may be replaced by other 300- or 500-level course if warranted by language proficiency)
- 37.357 Introduction to Latin American Literature (3)
- 37.450 Spanish Civilization I: Spain (3)
- 37.451 Spanish Civilization II: Latin America (3)
- 37.491 Internship: Spanish (2-6)
- Three credit hours of linguistics (38.xxx) as approved by adviser
- Remaining credit hours chosen from Spanish topics, colloquium, and literature courses

*Note Also:* The Department of Language and Foreign Studies faculty offers teacher education courses through the School of Education.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Foreign Language and Communication Media

Students are admitted to both the Department of Language and Foreign Studies and the School of Communication.

Program tracks are: French, German, Russian, or Spanish combined with Broadcast Journalism, Print Journalism, Public Communication, or Visual Media. Refer to the Interdisciplinary Degree Program chapter in this publication for information on major and course requirements.

## B.A. in Language and Area Studies

Offered jointly by the Department of Language and Foreign Studies of the College of Arts and Sciences (CAS) and the School of International Service (SIS). Students may major in French/Europe, German/Europe, Russian/Area Studies, or Spanish/Latin America area studies.

Refer to the Interdisciplinary Degree Program chapter in this catalog for admission, degree, and course requirement for this program.

## Minor in Language and Area Studies

Language and Area Studies minors are available in French/Europe, German/Europe, Russian/Area Studies, Spanish/Latin America, or Japanese/Asia area studies. Refer to the Interdisciplinary Degree Program chapter in this catalog for course requirements.

## Minor in French, German, Russian, or Spanish Language

### Requirements

- Twenty-four credit hours of courses taught in the foreign language, of which 12 credit hours must be at the 300 level or above.

## Minor in Russian Studies

### Requirements

- 37.200 Russia and the United States /S 3:2 (3)
- Fifteen credit hours in Russian studies selected from course offerings in at least three different teaching units. Nine of these 15 credit hours must be at the 300 level or above.

## Undergraduate Certificate in Translation

Students receive an Undergraduate Certificate in Translation in French, German, Russian, or Spanish. The emphasis of this program is on translation into English.

### Admission to the Program

Open to all students who have completed the 300-level Conversation and Composition II language course or equivalent.

### Course Requirements

- Fifteen credit hours at the 300 level or above of which at least 12 must be taken in the Department of Language and Foreign Studies
- The remaining 3 credit hours may be a writing-intensive course chosen in another unit in consultation with the language adviser.
- Competency examination

## M.A. in French, Russian, or Spanish Studies

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must hold a B.A. or an equivalent foreign degree in the language and have proficiency in the appropriate language and culture. Part-time as well as full-time students are welcome in the program.

### Majors

French, Russian, or Spanish Studies

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work with a grade point average of 3.00 (on a 4.00 scale)  
Students may pursue Concentration Option A (French only) or Option B:  
*Concentration Option A (French only):* Concentration in Language, Culture, and Literature Studies consisting of at least 24 credit hours in appropriate courses and colloquiums taught in the foreign language and offered by the Department of Language and Foreign Studies.  
*Concentration Option B:* Concentration in Language Studies and one of the following areas: anthropology, communication and media studies, education, history, international affairs, international business, linguistics, or sociology. The program consists of at least 15 credit hours in approved courses taught in the foreign language and offered by the Department of Language and Foreign Studies and at least 9 credit hours in courses in the chosen area of concentration outside the department.
- Two written comprehensive examinations in the field or fields of core courses. One of these must be conducted in the foreign language. An oral interview in the foreign language precedes the written comprehensive exams in French and Spanish Studies to evaluate the student's preparedness. In Russian Studies the oral interview follows the written comprehensives to assist the faculty's final evaluation.
- Thesis option: At least one 700-level seminar offered in the Department of Language and Foreign Studies and thesis preparation (usually expressed as 3 credit hours in 37.797 Master's Thesis Seminar).  
Nonthesis option: At least two advanced graduate seminars, one of which must be in the Department of Language and Foreign Studies. With special permission, the second seminar can be replaced with a supervised research project.

### Special Opportunities

The following study opportunities may partially satisfy course work in the chosen concentration: Graduate Certificate in Teaching English to Speakers of Other Languages, Certificate of Expertise in European Integration, and International Work-Study for academic credit through the Cooperative Education Program.

## M.A. in TESOL (Teaching English to Speakers of Other Languages)

### Admission to the Program

Applicants to the master's program in TESOL are subject to the minimum university requirements for admission to graduate study. Further, a grade point average of 3.00 (on a 4.00 scale) in the undergraduate major and two letters of academic reference are required. It is recommended that native speakers of English have some background in at least one other language. International students are expected to demonstrate competence in English equivalent to a score of 800 or better on the Test of English as a Foreign Language (TOEFL). English instruction is available at the English Language Institute for students who meet all admissions requirements except for competence in English. Part-time as well as full-time student are welcome in the program.

*Note:* This program is not designed for K-12 ESL Certification

### Degree and Major Requirements

- At least 33 credit hours of approved TESOL coursework
- Two comprehensive examinations:  
A written examination based on the core courses and electives, taken after completion of all required coursework.  
An oral exam taken shortly after the written exam to assist the faculty's final evaluation by clarifying responses to questions on the written exam.
- Thesis option: thesis and oral defense (see course requirements below)  
Nonthesis option: (see course requirements below)

### Course Requirements

#### Core Courses (21 credit hours)

- 38.500 Principles of Linguistics (3)
- 38.501 Theory and Practice of ELT I (3)
- 38.502 Theory and Practice of ELT II (3)
- 38.503 Structure of English (3)
- 03.537 Topics in Language and Culture (3)  
or  
03.637 Proseminar: Anthropological Linguistics (3)
- 38.620 Practicum in ESL (3)
- 38.623 Second Language Acquisition (3)  
or  
38.622 Language Acquisition (3)

#### Electives (12 credit hours)

- A minimum of four courses (12 credit hours) selected in consultation with an adviser from the following:  
38.525 Teaching English for Specific Purposes (3)  
38.527 Sociolinguistics (3)  
38.531 Language Teaching and Testing (3)  
38.528 Bilingual Education (3)  
38.552 Linguistic Structure I: Phonetics and Phonemics (3)  
38.553 Linguistic Structure II: Morphology and Syntax (3)

- 38.554 Computer Applications for Language Teachers (3)
- 38.596 An appropriate Selected Topics (.596) course may be used to fulfill this requirement with permission of the student's adviser (3)
- 38.622 Language Acquisition (3) (if not taken in core)
- 38.623 Second Language Acquisition (3) (if not taken in core)
- 38.700 Seminar in Linguistics (3)
- 03.537 Topics in Language and Culture (3) (if not taken in core)
- 03.637 Proseminar: Anthropological Linguistics (3) (if not taken in core)
- 21.625 Global Education (3)
- Thesis option: completion of 38.797 Master's Thesis Seminar (6) in lieu of 6 hours of electives listed above  
Nonthesis option: completion of course requirements as described above

## Master of Arts in Teaching (M.A.T.)

An M.A.T. degree (offered through the School of Education) is available for students with a bachelor's degree in French or Spanish who wish to acquire teaching certification in secondary education. Consult the School of Education section in this chapter for information on requirements for this program.

## Graduate Certificate in Translation

Students receive a Graduate Certificate in Translation in French, Russian, or Spanish. The emphasis of this program is on translation into English.

### Admission to the Program

Open to all students who have a bachelor's degree and have completed the 300-level Conversation and Composition II language course or equivalent.

### Course Requirements

- Fifteen credit hours at the 500 level or above of which at least 12 must be taken in the Department of Language and Foreign Studies
- The remaining 3 credit hours may be a writing-intensive course chosen in another unit in consultation with the language adviser
- Competency examination

## Certificate in Teaching English to Speakers of Other Languages

### Admission to the Program

International students must demonstrate competence in English equivalent to a score of 600 or above in the Test of English as a Foreign Language (TOEFL).

### Course Requirements

- 38.500 Principles of Linguistics (3)

- 38.501 Theory and Practice of ELT I (3)
- 38.502 Theory and Practice of ELT II (3)
- Two approved elective courses

*Note:* This program is not designed for K-12 ESL Certification

## Literature

**Chair** Kermit W. Moyer

### Full-Time Faculty

**Professor** M.C. Batchelder (Emeritus), B.T. Bennett, P. Han (Emeritus), J.J. Jorgens, F. Kelly (Emerita), E.L. Kessler (Emeritus), F. King (Emerita), C.R. Larson, J. Loesberg, A. Lustig, K.W. Moyer, K. Mussell, M. Patton (Emerita), J.N. Radner, J.A. Roberts (Emerita), R. Rubenstein, H.S. Taylor, F. Turaj

**Associate Professor** A.P. Bean (Emeritus), D.C. Payne, E. Smoodin, W.E. Stahr (Emeritus), S. Yarnall (Emerita), F.E. Zaparka

**Assistant Professor** T.F. Cannon, Jr., H. Ibrahim, R. McCann, K.Z. Moore, M. Noble, R. Sha, J.R. Solomon

**Instructor** L. Brennan, H. Dwinell, B. Esstman, H. Grossinger, J.C. Hansbarger, M.E. Henry, M. Rile

Concerned with the study of literature, writing, and film, the Department of Literature offers courses that embrace many approaches to the rich heritage of written, oral, and cinematic tradition, as well as courses that challenge students to write creatively and professionally. In addition to taking courses, our students are encouraged to enroll in internships to sample careers that use the skills they are developing in the classroom; Washington affords a wide range of job opportunities (many involving writing or editing) in settings such as arts organizations, radio and television, government offices, public interest organizations, museums, schools, and community groups.

The department's faculty of scholars and writers staff three degree programs in literature: the B.A., the M.A., and the M.F.A. in Creative Writing. All three programs offer students the chance to study literature, film criticism, and creative writing; all are small and flexible programs that bring students and faculty into close contact in small classes and informal gatherings and colloquiums. The M.A. program provides an overview of the literary history of our culture in addition to a series of seminars on theoretical topics in which students and faculty together consider what constitutes the discipline of literary criticism. The M.F.A. in Creative Writing program includes work in fiction, poetry, and film script; workshops with distinguished visiting writers; internships; and course work in literature and in the arts of translation and literary journalism. It also offers students opportunities to give public readings, to meet with editors and publishers, and to produce a nationally known literary magazine.

In addition, the department offers a degree program in the study of film, which takes advantage of the impressive film resources of the Washington area. The B.A. in Literature: Cinema Studies is an interdisciplinary major combining course work in cinema and video criticism and

history with experience in production; graduates of the program have gone on to work in such careers as film reviewing, theatre management, and film production.

### The Visiting Writers Series

Each semester, the department sponsors public readings by nationally-known poets, fiction writers, and editors. These visitors also conduct workshops for graduate and undergraduate students of creative writing. Visiting writers have recently included A.M. Homes, Toni Cade Bambara, Allan Gurganus, Grace Paley, Randall Kenan, Charles Baxter, and Yusef Komunyakaa. Distinguished Writers in Residence have included Pablo Medina, Brett Singer, Jean Valentine, and Alice McDermott.

## B.A. in Literature

### Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and departmental approval.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 42 credit hours with grades of C or better. At least 24 of the 42 hours must be taken at the 300 level or above

### Course Requirements

- 23.105 The Literary Imagination /A 1:1 (3) or
- 23.120 Interpreting Literature /A 1:1 (3)
- Three survey courses from the following:
  - 23.115 Remarkable Literary Journeys /A 2:1 (3)
  - 23.210 Survey of American Literature I (3)
  - 23.211 Survey of American Literature II (3)
  - 23.220 Survey of British Literature I (3)
  - 23.221 Survey of British Literature II (3)
  - 23.230 Major European Writers I (3)
  - 23.231 Major European Writers II (3)
 At least one of these must be 23.115, 23.210, 23.220, or 23.230. A student may not count both 23.115 and 23.230 in fulfilling this requirement.
- Four courses in literature written before 1900, of which at least two must be in literature written before 1800
- One course in either cinema studies or creative writing
- Five other courses offered or approved by the Department of Literature

## Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education section in this chapter for information.

## University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To fulfill Honors requirements for University Honors in Literature, students may enroll in Literature Honors Colloquia with literary topics, or may arrange an Honors supplement to a regular course or an Honors Independent study in Literature. All students complete a two-semester Honors sequence in Senior Seminar and Senior Honors Thesis. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Literature: Cinema Studies

### Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and departmental approval.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 45 credit hours with grades of C or better

### Course Requirements

- 17.200 Writing for Mass Communication (3)
- 23.105 The Literary Imagination /A 1:1 (3)  
or
- 23.120 Interpreting Literature /A 1:1 (3)
- 23.135 Critical Approach to the Cinema /A 1:1 (3)
- 23.376 National Cinema (3)
- 23.378 Major Filmmakers (3)
- 23.380 Independent Filmmakers (3)
- 17.430 Basic Photography (3) and  
17.431 Basic Visual Media Production (3)  
or
- 17.558 History of Motion Pictures I (3) and  
17.559 History of Motion Pictures II (3)

- 23.375 Film and Literature (3)  
or
- 23.402 Creative Writing: Film Script (3)
- 23.377 Popular Film Genres (3) or, by permission of adviser, a special topics course in film
- 17.511 History of Documentary Film (3)  
or
- 17.512 Television Documentary (3)
- Three additional courses in literature. With the adviser's approval, one of these may be a literature course taught in a foreign language
- One course in theatre, music, or photography

## University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Minor in Cinema Studies

### Requirements

- 17.200 Writing for Mass Communication (3)
- 23.135 Critical Approach to the Cinema /A 1:1 (3)
- Four courses from the following:  
23.375 Film and Literature (3)  
23.376 National Cinema (3)  
23.377 Popular Film Genres (3)  
23.378 Major Filmmakers (3)  
23.380 Independent Filmmakers (3)  
23.402 Creative Writing: Film Script (3)
- Two courses from the following:  
17.430 Basic Photography (3) (taken with 17.431)  
17.431 Basic Visual Media Production (3)  
(taken with 17.430)  
17.511 History of Documentary Film (3)  
17.512 Television Documentary (3)  
17.558 History of Motion Pictures I (3)  
17.559 History of Motion Pictures II (3) (or another visual media course approved by adviser)

## Minor in Literature

### Requirements

- 23.105 The Literary Imagination /A 1:1 (3)  
or
- 23.120 Interpreting Literature /A 1:1 (3)
- One course selected from the following:  
23.115 Remarkable Literary Journeys /A 2:1 (3)  
23.210 Survey of American Literature I (3)  
23.211 Survey of American Literature II (3)  
23.220 Survey of British Literature I (3)  
23.221 Survey of British Literature II (3)

23.230 Major European Writers I: An Introductory Survey (3)

23.231 Major European Writers II (3)

- Twelve credit hours in literature (9 hours must be at the 300 level or above)  
Only one course in creative writing may be counted toward the minor.

## M.A. in Literature

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants should have a grade point average of 3.00 (on a 4.00 scale) in undergraduate literature courses. The Graduate Record General Examination is recommended. An undergraduate major in literature is desirable, but applications from candidates who have majored in other fields will also be considered, provided that substantial study of literature has been done. Two letters of recommendation and a sample of critical writing are required. Part-time as well as full-time students are welcome in the program.

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- A written comprehensive examination based on a reading list prepared by the department, usually taken in the final semester of study
- Thesis option: a two-semester project involving independent research under faculty direction (3 credit hours, 23.690 Independent Study Project in Literature) and thesis writing (3 credit hours, 23.797 Master's Thesis Seminar)
- Course-intensive (nonthesis) option: 6 credit hours of course work, 3 of which must be in a graduate seminar (23.7xx or 23.5xx). Students electing this option must take at least five graduate seminars to fulfill their degree requirements.

### Course Requirements

- At least four graduate seminars (23.7xx or 23.5xx), chosen from among those offered on a rotating basis by the department; graduate seminar credit will also be given for participation in Folger Institute seminars
- Twelve additional credit hours of graduate seminars, advanced literature courses (23.500 through 23.750), and independent reading courses or study projects
- With permission of the departmental adviser, a student may take up to 6 graduate credit hours outside the Department of Literature
- Six additional credit hours to fulfill the thesis or course-intensive option

## M.F.A. in Creative Writing

### Admission to the Program

Applicants must meet the minimum university requirements for graduate study. An undergraduate major in literature is desirable, but applications from candidates who have majored in other fields will be considered. Admission is based on samples of previous writing (30 pages of fiction or 15 pages of poetry), academic record, and two letters of recommendation.

### Degree and Major Requirements

- A total of 48 credit hours of approved graduate work
- Advancement to candidacy is automatic on admission to the program, but subject to yearly review
- A book-length manuscript of fiction, poetry, or drama, to be approved by the creative writing faculty
- One oral examination on the candidate's manuscript: its merits, characteristics, and relations to the works of others

### Course Requirements

- Twelve credit hours in writing workshops:  
23.700 Advanced Fiction Workshop (3)  
23.701 Advanced Poetry Workshop (3)  
23.702 Creative Writing: Film Script (3)  
Students may concentrate on one genre or work in several
- Twelve credit hours in literature courses selected from among the regular graduate level literature offerings of the department
- 23.705 Seminar on Translation (3)
- 23.710 Art of Literary Journalism (3)
- 23.691 Graduate Internship (6)  
Possible internship sites include the Writer's Center in Bethesda, the Folger Shakespeare Library, the Library of Congress, the Writers-in-the-Schools programs, and affiliations with in-house and trade publishers.
- Six credit hours from the following:  
Additional writing workshops, offered at American University or elsewhere  
Additional courses in literature, cinema studies, or performing arts  
With the approval of an adviser, courses in foreign languages, journalism, or in any other discipline which seems germane to the individual student's interest and consistent with the objectives of the program
- Six credit hours of 23.797 Master's Thesis Seminar

# Mathematics

**Chair** Nancy Flournoy

## Full-time Faculty

**Professor** J. Blum (Emeritus), D.S. Crosby, N. Flournoy, M.W. Gray, R.A. Holzsgager, R.W. Jernigan, B.P. Korin, G. Quinn (Emerita), S.H. Schot, J.H. Smith (Emeritus)

**Associate Professor** A.M. Barron, I.L. Chang, L.J. Crone, A. Enayat, M. Greene, J. Nolan

**Assistant Professor** S. Casey, J. Hakim, D. Kalman, H. Sandler, V. Stallings-Roberts, F. Wang

**Instructor** S. Byekwaso, E. Kondells, M. McShea, J. Milka, S. Mokatin, H. Wu

Mathematics may be studied as an intellectual discipline for its own sake or as a professional tool for application to the problems of other disciplines. Majors in mathematics will receive firm grounding in the theory and techniques of algebra, analysis, and other fields as a basis for further work in pure or applied mathematics and for graduate studies. The major in Applied Mathematics offers training in mathematical problem-solving techniques without emphasis on abstract theory. This program is not as firm a foundation for graduate work as the mathematics major, but is tailored to the student who will need to apply mathematical, statistical, and computer methods to practical problems.

Undergraduates majoring in mathematics may choose a variant of the standard curriculum, supplemented by courses in education and in psychology, to be certified as secondary teachers.

The Department of Mathematics and Statistics combines the resources and knowledge of these related disciplines. This enables the department to offer unusually varied and flexible programs. A student with an interest in the mathematical sciences may choose a program within the department and later change his or her emphasis without a great loss of time because the programs share a common core.

The university's Washington, D.C. location affords the student access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment opportunities for students with a firm grounding in the mathematical sciences.

## Special Opportunities

The department employs a number of its undergraduates in its tutoring lab and in the computer labs. The department also offers a limited number of book scholarships to its undergraduates. Applications should be submitted by the end of July preceding the academic year for which aid is requested. Work-study awards are also available. For more information, consult the Office of Financial Aid at (202) 885-6100.

## B.S. in Applied Mathematics

### Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.00 (on a 4.00 scale) and departmental approval.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 57 credit hours with grades of C or better

### Course Requirements

- 40.280 Introduction to Computer Science I / N (4)
- 40.281 Introduction to Computer Science II / N (3)
- 40.460 Introduction to Numerical Methods (3)
- 41.221 Calculus I / N (4)
- 41.222 Calculus II / N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.321 Differential Equations (3)
- 41.501 Probability (3)
- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)
- 42.502 Introduction to Mathematical Statistics (3)
- Three additional mathematics electives, to be selected in consultation with the student's adviser

#### Related Courses

- 51.110 University Physics I / N 5:1 (4)
- 51.210 University Physics II / N 5:2 (4) or alternative science courses if approved by adviser

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## B.S. in Mathematics

### Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.00 (on a 4.00 scale) and departmental approval.

### Tracks

Mathematics or Secondary Mathematics Teaching

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- Mathematics: A total of 52 credit hours with grades of C or better
- Secondary Mathematics Teaching certification: A total of 69 credit hours with grades of C or better

### Course Requirements

#### Mathematics

- 40.280 Introduction to Computer Science I /N (4)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.322 Advanced Calculus (3)
- 41.512 Introduction to Modern Algebra I (3)
- 41.513 Introduction to Modern Algebra II (3)
- 41.520 Introduction to Analysis I (3)
- 41.521 Introduction to Analysis II (3)
- Three courses selected from the following:
  - 41.321 Differential Equations (3)
  - 41.501 Probability (3)
  - 41.515 Number Theory (3)
  - 41.540 Topology (3)
  - 41.550 Complex Variables for Applications (3)
  - 41.551 Mathematics for Physics (3)
  - 41.560 Numerical Analysis: Basic Problems (3)
  - 42.502 Introduction to Mathematical Statistics (3)
- Three courses in a field of application, to be selected in consultation with the adviser

*Note:* This requirement may be waived for students with more than one major in this department and for students obtaining secondary teaching certification in mathematics.

### Secondary Mathematics Teaching

- 40.280 Introduction to Computer Science I /N (4)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.322 Advanced Calculus (3)
- 41.501 Probability (3)
- 41.512 Introduction to Modern Algebra I (3)
- 41.510 Geometry (3)
- 42.202 Basic Statistics (4)
- 42.502 Introduction to Mathematical Statistics (3)

Courses required for secondary teaching certification:

- 21.200 Schools and Society /S 4:2 (3)
- 21.320 Psychology of Education (3)
- 21.321 Field Experience: Observation and Analysis (1)
- 21.362 Classroom Management (3)
- 21.540 Methods and Materials in Secondary Education (3)
- 21.541 Foundations of Special Education for Exceptional Children (3)
  - or
  - 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
- 21.371 Foundations of Reading Instruction (3)
  - or
  - 21.520 Reading, Writing, and Literature across the Curriculum (3)
- 21.599 Student Teaching (9)
- 41.585 Mathematics Education (3)
- All students are required to take the National Teacher Examination (core battery and specialty area) prior to graduation.

### Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education section in this chapter for information.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.



## Minor in Mathematics

### Requirements

- 41.310 Linear Algebra (3)
- 41.221 Calculus I /N (4) *and*  
41.222 Calculus II /N (4)  
or  
41.211 Applied Calculus I /N (4) *and*  
41.212 Applied Calculus II /N (3)
- Three additional approved courses numbered 41.xxxx, at least two of which must be at the 300 level or above

## Minor in Quantitative Methods

### Course Requirements

- 41.310 Linear Algebra (3)
- 40.260 Introduction to Computing /N (4)  
or  
40.280 Introduction to Computer Science I /N (4)
- 41.221 Calculus I /N (4) *and*  
41.222 Calculus II /N (4)  
or  
41.211 Applied Calculus I /N (4) *and*  
41.212 Applied Calculus II /N (3)
- Two courses in statistics numbered 42.3xx or above; Students may select only one of 42.300 Business and Economic Statistics, 42.302 Intermediate Statistics or 42.514 Statistical Methods for credit toward the minor.

## Five-Year Programs

### Admission to Programs

The five-year programs enable qualified undergraduates (students with a grade point average of 3.20 on a 4.00 scale in major courses) to earn both a bachelor's and a master's degree within five years. There are several options available: the student may choose the same major at the undergraduate and graduate level; the student may enter the master's program in computer science with an undergraduate major in mathematics; or the student may enter the master's program in statistics with an undergraduate major in mathematics. All students should apply by the end of the junior year.

## Combined B.S./M.A. Program in Applied Mathematics

Students receive a B.S. in Applied Mathematics and an M.A. in Applied Mathematics.

*Note:* This option is not open to those students who followed the curriculum for Secondary Mathematics Teaching.

### Degree and Major Requirements

- A total of 83 credit hours of course work
- An approved tool of research
- Comprehensive examination
- Thesis option: 6 hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis

Nonthesis option: 3 credit hours in 41.690 Independent Study Project in Mathematics or 41.700 Seminar in Mathematics requiring an oral and written presentation of the research work. Three additional hours in approved graduate level independent research, seminars, or research courses.

### Course Requirements

- All requirements for the B.S. in Applied Mathematics
- Twelve credit hours of graduate courses in mathematics
- Six credit hours chosen within the department or an application area approved by the department
- Six credit hours of course work to fulfill the thesis or nonthesis option

## Combined B.S./M.A. Program in Mathematics

Students receive a B.S. in Mathematics and an M.A. in Mathematics.

*Note:* Applicants must have completed one of the following sequences by the end of the junior year:

- 41.512 and 41.513 Introduction of Modern Algebra I and II  
or  
41.520 and 41.521 Introduction to Analysis I and II

### Degree and Major Requirements

- A total of 76 hours of course work
- An approved tool of research
- Comprehensive examination
- Thesis option: 6 hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis. Nonthesis option: 3 credit hours in 41.690 Independent Study Project in Mathematics or 41.700 Seminar in Mathematics, requiring an oral and written presentation of the research work. Three additional hours in approved graduate-level independent research, seminars, or research courses.

### Course Requirements

- All requirements for the B.S. in Mathematics. Senior-year courses must include a one-year major course sequence acceptable towards a master's degree, but to count towards the B.S. only.
- Eighteen credit hours of graduate courses in mathematics
- Six credit hours of course work to fulfill the thesis or nonthesis option

## Combined B.S./M.S. Program in Mathematics and Computer Science

For a description of this program, see listing under Computer Science and Information Systems in this chapter.

## Combined B.S./M.S. Program in Statistics or Mathematics and Statistics

For a description of this program, see listing under Statistics in this chapter.

## M.A. in Mathematics

### Admission to the Program

In addition to meeting the minimum university requirements for admission, applicants must have an undergraduate degree in mathematics. Students entering the M.A. program without the appropriate background will be expected to take certain undergraduate courses as prerequisite work.

### Degree and Major Requirements

- A total of 30 credit hours of graduate course work including thesis or nonthesis option requirements
- Proficiency in Russian, German, French, or an approved computer language as a tool of research
- A written comprehensive examination in either mathematics, 41.050, or applied mathematics, 41.051
- Thesis option: 6 hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis. Nonthesis option: 3 credit hours in 41.690 Independent Study Project in Mathematics or 41.700 Seminar in Mathematics (topic to be chosen in consultation with a faculty member) requiring an oral and written presentation of the research work. Three hours in approved graduate level independent research, seminars, or research courses.

## Ph.D. in Mathematics Education

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must hold a master's degree in either education or mathematics. Admission is based on academic record and two letters of recommendation.

#### Degree and Major Requirements

- At least 45 credit hours of approved graduate work in addition to credit earned for the master's degree
- Proficiency in two tools of research:  
One tool must be statistics, satisfied by satisfactory completion (B or better) of the statistics courses described below or by passing an examination given by the Department of Mathematics and Statistics. The second tool may be French, German, Russian, Spanish, or an approved computer language.
- Four comprehensive examinations:  
41.070 Mathematics for Mathematics Education (written)  
41.071 Mathematics Education (oral)  
41.072 Mathematics Education (written)

One additional comprehensive exam from those regularly given by the School of Education or the departments of psychology, mathematics and statistics, or computer science and information systems. Students who do not have a previous graduate degree in education must take one of these exams in the School of Education. In special cases, dependent upon experience and interest, other fields are possible.

- Dissertation directed by a full-time faculty member and an oral defense of the dissertation (minimum of 6 hours of 41.799 Doctoral Dissertation Seminar in Mathematics).

### Course Requirements

- 41.512 Introduction to Modern Algebra I (3)
- 41.520 Introduction to Analysis (3)
- 41.513 Introduction of Modern Algebra II (3)
- 41.521 Introduction to Analysis II (3)
- 41.585 Mathematics Education (3)
- 41.685 Practicum in Mathematics Education (3)
- 41.790 Research Seminar in Mathematics Education (3)

Approved mathematics courses may be substituted for 41.512, 41.513 41.520, and 41.521 if the student's previous work included these courses.

- 42.515 Regression (3) and 42.516 Design of Experiments (3) or  
41.501 Probability (3) and 42.502 Introduction to Mathematical Statistics (3)  
Approved statistics courses may be substituted for 41.515, 42.516, 41.501, and 42.502 if the student's previous work included these courses. *Note:* 42.514 Statistical Methods will not be counted toward the program.
- Twelve additional hours of approved course work in mathematics, statistics, computer science, education, psychology, or other relevant fields  
This course work might include:

#### For college teaching:

- 21.566 Seminar: Cultural Factors in Higher Education (3)
- 21.583 Curriculum Construction and Program Design (3)
- 21.620 Theories of Educational Psychology (3)
- 21.687 Analysis of Instruction and Training (3)

#### For education administration:

- 21.631 Fundamentals of Management in Educational Organizations (3)
- 21.635 Training Program Design (3)
- 21.687 Analysis of Instruction and Training (3)

*Note:* Students who have not had courses comparable to 21.583 Curriculum Construction and Program Design and 21.687 Analysis of Instruction and Training must include these courses in their programs.

# Performing Arts: Music, Theatre, Dance, and Arts Management

**Chair** Valerie Morris

## Full-Time Faculty

**Professor** C. Crowder, E.S. Hayes (Emerita), A.R. Mandel, H. Mardirostian, V.E. Mason (Emeritus), J.L. McLain (Emeritus), N. Prevots, J. Sapleyevski, G.C. Schuetze (Emeritus), E. Vrenios

**Associate Professor** K. Baker (Emeritus), B. Baranovic (Emeritus), G. Humphries Breeskin, V. Morris

**Assistant Professor** A. Donohue, C. Jennings, C. Mendenhall

The Department of Performing Arts provides intensive professional training in each of its disciplines: music, theatre, music theatre, dance, and arts management.

The programs offer a unique blend of classroom work and performance experience. Each year a season of plays, musicals, opera, orchestra and choral concerts, and dance concerts augments classroom learning with actual experience. Similarly, the graduate Arts Management program provides hands-on experience through field studies and an internship with a local or national arts organization.

The Visiting Artists and Artists-in-Residence programs in the Department of Performing Arts provide students with opportunities to meet and work with well known professionals in each of the disciplines. Guest artists have included Twyla Tharp, Nina Wiener, Jim May, and Erick Hawkins. For musicians, internationally acclaimed composer Jerzy Sapleyevski collaborates with the Physics Department in directing the A.U. Music Lab, which gives the students opportunities to experiment with new sound technology. The Washington Music Ensemble, in residence at the university, features faculty members Alan Mandel and Elizabeth Vrenios. In addition, graduate classes are held with famous musical performers such as Elizabeth Schwarzkopf and Leon Fleischer. Special opportunities for performance include participation in the department's musical theatre troupes Pizazz and Creative Company. The companies have performed for inaugural events, corporate functions, and special galas. Theatrical guest artists have included Mabou Mines, Joshua Logan, Richard Schechner, Herb Edelman, and Cliff Fannin Baker.

The dynamic interaction of performance experience, theoretical and historical understanding, and exposure to well established professionals is designed to prepare the student for a professional or teaching career. The Washington, D.C. area is the home of many arts organizations, including the John F. Kennedy Center for the Performing Arts, the Washington Ballet, the Wolf Trap Farm Park for the Performing Arts, the National Symphony, and Arena Stage. In addition, Washington, D.C. hosts many international artists and performing arts groups. This environment provides an excellent climate for the nurturing of the creative spirit.

## B.A. in Music

The music program is fully accredited by the National Association of Schools of Music.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than six credit hours may be taken in the same discipline.

### Major Requirements

- A total of 59 credit hours with grades of C or better

### Course Requirements

- 67.110 Understanding Music /A 1:1 (3)
- 67.124 Music Theory I: Basic Harmony and Analysis (3)
- 67.125 Music Theory II: Continuing Harmony (3)
- 67.127 Musicianship I (3)
- 67.128 Musicianship II (3)
- 67.205 Masterpieces of Music /A 1:2 (3)
- 67.227 Musicianship III (3)
- 67.228 Musicianship IV (3)
- 67.320 Music Theory III: Modal Counterpoint (3)
- 67.321 Music Theory IV: Tonal Counterpoint (3)
- 67.322 History of Music I: from Antiquity to 1700 (3)
- 67.323 History of Music II: from 1700 to Present (3)
- 67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3)
- 67.325 Music Theory VI: The Twentieth Century (3)

Any of these courses may be waived by examination.

- Four semesters of applied music
- Two semesters from the following:  
67.142 Concert Choir (1)  
67.143 University Singers (2)  
67.144 University Orchestra (1)
- Two additional semesters in any faculty-conducted ensemble
- Nine credit hours of electives in music

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding de-

partmental options. See the section on the University Honors Program in this catalog for further details.

## Bachelor of Music (B.Mus.)

*Note: No new students will be admitted to this program for the 1994-1995 academic year.*

### B.A. in Performing Arts: Music Theatre

#### Admission to the Program

Formal admission to the major requires satisfactory completion (C or better) of 12 credit hours of performing arts courses and departmental approval.

#### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

#### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

#### Major Requirements

- A total of at least 53 credit hours with grades of C or better
- Participation in a minimum of four department productions and management (as stage manager or assistant stage manager) of one of these productions before graduation

#### Course Requirements

- 67.127 Musicianship I (3)
- 67.128 Musicianship II (3)
- 67.251 Fundamentals of Acting I (3)
- 67.252 Fundamentals of Acting II (3)
- 67.260 Principles of Production I (4)
- 67.340 From Scene Into Song (3)
- 67.342 Vocal Techniques for Music Theatre (3)
- 67.346 Survey of Music Theatre (3)
- 67.355 Speech and Voice for the Theatre (3)
- 67.444 Senior Capstone: Music Theatre (3)
- 67.507 Principles of Movement (3)
- Any two of the following:  
67.305 History and Philosophy of Dance: 15th-19th Centuries (3)  
67.306 History and Philosophy of Dance: 20th Century (3)  
67.322 History of Music I: from Antiquity to 1700 (3)  
67.323 History of Music II: from 1700 to Present (3)

67.365 Theatre History I: from the Greeks to the Renaissance (3)

67.366 Theatre History II: from Baroque to the End of the Nineteenth Century /A (3)

- Nine credits of dance technique courses (selection dependent on student's level of ability)
- Two credits of applied piano
- Two credits of applied voice

#### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

### B.A. in Performing Arts: Theatre

#### Admission to the Program

Formal admission to the major requires some previous theatre experience and demonstrated talent accomplished through an interview/audition arranged with a member of the theatre faculty. The interview/audition may be done before or after formal admission to the university at the discretion of the theatre faculty.

#### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

#### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

#### Tracks

Performance, Technical, or Arts Management

#### Major Requirements

- A total of 55 credit hours with grades of C or better
- Participation in a minimum of four department productions in either a performance or technical capacity. One of these must be done as stage manager or assistant stage manager.

#### Course Requirements

##### Core (34 credit hours)

- 67.115 Theatre: Principles, Plays, and Performance /A 1:1 (3)
- 67.181 Stage Make-up (1)
- 67.251 Fundamentals of Acting I (3)

- 67.260 Principles of Production I (4)
- 67.261 Principles of Production II (4)
- 67.265 Theatre Practicum (1) (four semesters minimum required; one each in scene shop, costume, public relations, and stage management)
- 67.365 Theatre History I: from the Greeks to the Renaissance (3)
- 67.366 Theatre History II: from Baroque to the End of the Nineteenth Century /A (3)
- 67.367 Theatre History III: Twentieth Century (3)
- 67.445 Senior Capstone: Theatre (3)
- 67.552 Directing Techniques (3)

Completion of one of the following three tracks:

#### **Performance Track (21 credit hours)**

- 67.252 Fundamentals of Acting II (3)
- 67.350 Fundamentals of Acting III (3)
- 67.351 Movement for Actors (3) (or a dance course approved by the students's adviser)
- 67.355 Speech and Voice (3)
- Three credit hours from the following:  
67.362 Lighting Design (3)  
67.364 Basics of Scene and Costume Design (3)
- Six credit hours from the following:  
67.440 Stage Management (3)  
67.450 Rotating Topics in Theatre (3) (may be repeated for credit with different topic)  
67.490 Independent Study Project in Performing Arts (1-6) (3 credits maximum)  
67.491 Performing Arts: Internship (1-6) (3 credits maximum)  
67.555 Acting and Directing for the Camera (3)  
67.557 Creative Writers Performance Lab (3)  
67.570 Survey of Arts Management (3)

#### **Technical Track (21 credit hours)**

- 05.205 Drawing: Responding to Vision /A 1:2 (3)
- 50.101 Fundamentals of Audio Technology (3)
- 67.252 Fundamentals of Acting II (3)
- 67.362 Lighting Design (3)
- 67.364 Basics of Scene and Costume Design (3)
- 67.440 Stage Management (3)
- Three credit hours from the following:  
67.355 Speech and Voice (3)  
67.450 Rotating Topics in Theatre (3)  
67.490 Independent Study Project in Performing Arts (1-6) (3 credits maximum)  
67.491 Performing Arts: Internship (1-6) (3 credits maximum)  
67.555 Acting and Directing for the Camera (3)  
67.557 Creative Writers Performance Lab (3)  
67.570 Survey of Arts Management (3)

#### **Arts Management Track (21 credit hours)**

- 11.300 Principles of Management (3)
- 14.240 Principles of Accounting (3)
- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 67.570 Survey of Arts Management (3)
- Three credit hours from the following:  
67.362 Lighting Design (3)  
67.364 Basics of Scene and Costume Design (3)
- Three credit hours from the following:  
67.252 Fundamentals of Acting II (3)  
67.440 Stage Management (3)  
67.450 Rotating Topics in Theatre (3)  
67.490 Independent Study Project in Performing Arts (1-6) (3 credits maximum)  
67.491 Performing Arts: Internship (1-6) (3 credits maximum)  
67.555 Acting and Directing for the Camera (3)  
67.557 Creative Writers Performance Lab (3)

#### **Teacher Certification**

Students interested in teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education section in this chapter for information. The student's program is coordinated by the theatre program and the School of Education.

#### **University Honors Program**

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

### **Minor in Dance**

#### **Minor Requirements**

- A total of 24 credit hours in dance, including at least 12 at the 300 level or above

#### **Course Requirements**

- 67.506 The Moving Body (3)
- 67.507 Principles of Movement (3)
- 67.411 Composition of Dance I (3)  
or  
67.412 Composition of Dance II (3)
- 67.305 History and Philosophy of Dance I: 15th-19th Centuries (3)  
or  
67.306 History and Philosophy of Dance II: 20th Century (3)
- Twelve credit hours in dance electives

*Note:* At least 12 of the required 24 credit hours must be taken in residence at The American University.

Students must be assigned a departmental adviser if they intend to pursue the minor. Each student completing the minor must achieve some proficiency in dance performance. Required levels of proficiency are decided individually in conference with the director of the dance program, and take into account the student's interests, background, and abilities in dance.

### Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education section in this chapter for information. The student's program is coordinated by the dance program and the School of Education.

## Minor in Music

### Minor Requirements

- A total of 18 credit hours, including at least 12 credit hours at the 300 level or above

### Tracks

Performance, Theory/History

### Course Requirements

#### Performance

- 67.124 Music Theory I: Basic Harmony and Analysis (3) and  
67.125 Music Theory II: Continuing Harmony (3) or
- 67.127 Musicianship I (3) and  
67.128 Musicianship II (3)
- 67.323 History of Music II: from 1700 to the Present (3)
- Three semesters of 68.532 Private Study (2) for a total of 6 credit hours
- Three credit hours in music electives at the 300 level or above

#### Theory/History

- 67.124 Music Theory I: Basic Harmony and Analysis (3) and  
67.125 Music Theory II: Continuing Harmony (3) or  
67.127 Musicianship I (3) and  
67.128 Musicianship II (3)
- 67.323 History of Music II: from 1700 to the Present (3)
- Nine credit hours of music electives at the 300 level or above

## Minor in Theatre

- A total of 22 credit hours in theatre, including at least 12 credit hours at the 300 level or above

### Course Requirements

- 67.115 Theatre: Principles, Plays, and Performance /A 1:1 (3)
- 67.251 Fundamentals of Acting I (3)
- 67.260 Principles of Production I (4)
- 67.450 Rotating Topics in Theatre (3) or  
67.557 Creative Writers' Performance Laboratory (3)
- One of the following:  
67.362 Lighting Design (3)  
67.364 Basics of Scene and Costume Design (3)
- One of the following:  
67.350 Fundamentals of Acting III (3)  
67.351 Movement for Actors (3)  
67.355 Speech and Voice for the Theatre (3)  
67.450 Rotating Topics in Theatre (3)  
67.555 Acting and Directing for the Camera (3)
- One of the following:  
67.220 Reflections of American Society on Stage and Screen /A 1:2 (3)  
67.365 Theatre History I: from the Greeks to the Renaissance (3)  
67.366 Theatre History II: from Baroque to the End of the Nineteenth Century/A (3)  
67.367 Theatre History III: Twentieth Century (3)

**Note:** At least 9 of the required 22 credit hours must be taken in residence at The American University. Students must be assigned a departmental adviser if they intend to pursue the minor.

## M.A. in Music

### Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record and two letters of recommendation. Depending on previous experience, a student may be admitted with deficiencies which must be removed by appropriate course work or by waiver examination. During the first week of graduate work all new students are required to take the Graduate Placement Examination in Theory and History, unless waived by the director of music, to determine possible deficiencies in these basic areas.

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- Advancement to candidacy on completing 12 to 18 credit hours with a grade point average of 3.00 or higher (on a 4.00 scale), removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser
- Proficiency in German, French, or an approved substitute is required as a tool of research for students writing a musicology thesis

- Two comprehensive examinations: one in music history and theory, and one in student's field of specialization taken during or after the semester in which the required course work is completed and before registering for 67.749 Research Performance: Lecture Recital, 67.797 Master's Thesis Seminar, or 67.798 Nonthesis Option Seminar. The second examination for performance specialists is the Master's Recital.
- Thesis or an approved substitute

### Course Requirements

- 67.535 Studies in Music History (3) (topics)
- 67.536 Research Methodology in Music (3)
- 67.537 Music: Analytical Studies (3)
- One of the following:  
67.749 Research Performance: Lecture Recital (6)  
67.797 Master's Thesis Seminar (6)  
67.798 Nonthesis Option Seminar (6)
- One of the following:  
67.524 Studies in Music Theory (3)  
67.543 Pedagogy I (2) and 67.544 Pedagogy II (2)
- Electives to complete 30 credit hours from any additional graduate level courses in music, including:  
Up to 4 credit hours in 67.545 Chamber Ensembles (1)  
Up to 6 credit hours in graduate level applied music (68.5xx or 68.7xx)  
Up to 6 credits in 67.590 Independent Reading Course in Performing Arts and/or 57.690 Independent Study Project in Performing Arts

## M.A. in Performing Arts: Arts Management

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have completed nine or more undergraduate courses in theatre, dance, music, or visual arts, one-third of which must be advanced work or its equivalent. Equivalent training is understood to be four or more years' experience in a professional company or organization. Students entering the program with this background will be asked for an interview at which time any deficiencies will be determined. Two letters of recommendation are required. Provisional admission may be granted and is removed at the completion of 12 credit hours of work with a minimum grade point average of 3.00 (on a 4.00 scale).

### Degree and Major Requirements

- A total of 45 credit hours of approved graduate work
- Advancement to candidacy on completing 12 to 18 credit hours with a grade point average of 3.00 or higher (on a 4.00 scale), removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser
- A four hour comprehensive examination covering three areas: arts management, administration, and an art area of specialization

- A thesis written in conjunction with 67.797 Master's Thesis Seminar (6)

### Course Requirements

- 67.570 Survey of Arts Management (3)
- 67.571 Promotion and Public Relations for Performing Arts (3)
- 67.672 Rotating Topics in Arts Management (3)
- 67.673 Fund Raising Management for the Arts (3)
- 67.585 Creative Theories and Criticism in Performing Arts (3)
- 67.691 Performing Arts: Internship (6)  
or  
67.692 Cooperative Education Field Experience (1-6)
- Two electives in nonmanagerial arts-related topics
- Six credit hours to fulfill the thesis requirement
- The remainder from courses in business administration, communications, public relations, or public administration

## M.A. in Performing Arts: Dance

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have completed eight to ten courses or the equivalent in undergraduate dance, theatre, or music, half of which must be in dance. Equivalent training is understood to be four to six years' experience in a professional company or organization. Students entering the program with this background will be asked for an interview, at which time any deficiencies will be determined. Two letters of recommendation are required. Provisional admission may be granted and is removed at the completion of 12 credit hours of work in the department with a grade point average of 3.00 (on a 4.00 scale).

### Degree and Major Requirements

- A total of 36 credit hours of approved graduate work
- Courses are based on the student's chosen area of focus and are selected in consultation with an adviser.
- Students are urged to structure their degree programs so as to develop individual talent and may do so in close counsel with their advisers.
- Advancement to candidacy on completing 12 to 18 credit hours with a grade point average of 3.00 or higher (on a 4.00 scale), removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser.
- A four hour comprehensive examination covering three areas determined by the student and adviser.
- Thesis option: 67.797 Master's Thesis Seminar and a written research project in the field of history, criticism, performance and choreographic theory, methods of teaching, body knowledge, or related areas approved by the adviser, committee, and the department graduate studies committee before work begins.

- Nonthesis option: 67.798 Nonthesis Option Seminar which may include a performance in the area of the student's specialization, e.g., choreography or dance performance approved by the adviser, committee, and the department graduate studies committee before work begins. The completed project includes a written production book.

### Special Opportunities

Information regarding graduate assistantships in dance is available from the department.

## Graduate Certificate in Arts Management

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have completed nine or more courses in theatre, dance, music, or visual arts, one third of which should be advanced work or equivalent training. Equivalent training is four or more years' experience in a professional organization. Application and official transcripts should be submitted to the University Programs Advising Center, McKinley 153. Students are also encouraged to schedule a personal interview with the program director.

### Certificate Requirements

- Fifteen credit hours of approved graduate study

### Course Requirements

- 67.570 Survey of Arts Management (3)
- 67.571 Promotion and Public Relations for Performing Arts (3)
- 67.672 Rotating Topics in Arts Management (3)  
(Two rotating topics, for a total of 6 credits, must be taken to satisfy this requirement.)
- 67.673 Fund-Raising Management for the Arts (3)  
or  
67.585 Creative Theories and Criticism in Performing Arts (3)

## Graduate Certificate in Dance

### Admission to the Program

Applicants should meet the minimum university requirements for graduate study. In exceptional cases, four to six years' experience in a professional dance company may substitute for the bachelor's degree. Submit application and official transcripts to the University Programs Advising Center, McKinley 153. Students are encouraged to schedule a personal interview with the director.

### Certificate Requirements

- Fifteen credit hours of approved graduate study

### Course Requirements

- Five of the following:  
67.506 The Moving Body (3)  
67.507 Principles of Movement (3)

- 67.596 An appropriate Selected Topics course (.596) may be used to fulfill this requirement with permission of the student's adviser (3)
- 67.602 Modern Dance III (3)
- 67.604 Advanced Ballet (3)
- 67.605 History and Philosophy of Dance I: 15th–19th Centuries (3)
- 67.606 History and Philosophy of Dance II: 20th Century (3)
- 67.610 Workshop in Dance Production (3)
- 67.611 Composition of Dance I (3)
- 67.612 Composition of Dance II (3)

## Philosophy and Religion

Chair David F.T. Rodler

### Full-Time Faculty

**Professor** H.A. Durfee (Emeritus), C.D. Hardwick, J.H. Reiman (William Fraser McDowell Professor), R.T. Simonds, C.S.J. White

**Associate Professor** G. Greenberg, D.F.T. Rodler, P.H. Scribner

**Assistant Professor** T. McGarrity

Philosophy can be the avenue to develop skills in clear thinking and accurate writing. It offers the challenge of interpreting the work of the individuals who have created our intellectual traditions. Philosophy probes the nature of the real world, the basis of human values, and the foundations of reason. Students at The American University approach these issues through study of both historical literature and contemporary developments.

Graduates of our undergraduate program pursue graduate work not only in philosophy but in such related areas as history and literature. Many positions in science and industry require the kinds of analytical skills gained through the study of philosophy. Philosophy teaches precision in reasoning and clarity in expression—assets in any field. The study of philosophy has often preceded preparation for law, medicine, social work and the ministry, and other professional careers. In the humanities the study of philosophy leads to Graduate Record Exam skills similar to those in the sciences. The Consortium of Universities of the Washington Metropolitan Area also offers a wide variety of courses in philosophy that may be available to American University students.

Religion is not only for those planning professional careers in the field. The study of Western and Eastern religious traditions introduces students to a major influence on all civilizations. Few other university programs can so vividly set the American experience in a comparative cultural context. Future journalists, diplomats, and government specialists will benefit from a serious consideration of the inner workings of the religious ethos of civilizations. We are reminded by daily events that there is no more motivating factor in the cultures of nations than ardently held religious belief. A thorough understanding of the modern world requires familiarity with its religious heritage.



The American University's Washington, D.C. setting is advantageous for the study of religion. Christian and Jewish groups maintain national offices in the capital; representatives of non-Western religions have shrines in the metropolitan area. The religious leadership centered in Washington, D.C. welcomes the interest of students in their way of life.

The Department of Philosophy and Religion annually awards the \$500 Col. Harold and Ruth Pearson Prize in Philosophy to a major who has demonstrated excellence in the study of philosophy. The department also annually awards the Donald and Sammy Kane Prize in Religion to a major who has demonstrated excellence in the study of religion.

## B.A. in Philosophy

### Admission to the Program

Admission is through a formal declaration of major. The department counsels freshmen and new transfer students.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 39 credit hours with grades of C or better

### Course Requirements

- Thirty credit hours in philosophy and religion, including 9 credit hours in philosophy at the 300 level or above, and up to 9 credit hours in religion
- Nine credit hours in a single department outside of philosophy and religion, including 6 credit hours at the 300 level or above

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. Upper-level Honors courses for majors in philosophy or religion are given in the Department of Philosophy and Religion as Honors supplements to 300-level courses or above. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Religion

### Admission to the Program

Admission is through a formal declaration of major. The department counsels freshmen and new transfer students.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 39 credit hours with grades of C or better

### Course Requirements

- Thirty credit hours in religion and philosophy, including 9 credit hours in religion at the 300 level or above, and up to 9 hours in philosophy or Jewish studies
- Nine credit hours in a single department outside of philosophy and religion, including 6 credit hours at the 300 level or above

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. Upper-level Honors courses for majors in philosophy or religion are given in the Department of Philosophy and Religion as Honors supplements to 300-level courses or above. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Minor in Philosophy

- A total of 21 credit hours, including at least 9 credit hours at the 300 level or above

### Course Requirements

- 60.100 Introduction to Logic (3)
- Three credit hours chosen from the following:  
60.105 Western Philosophy /A 2:1 (3)  
60.300 Ancient and Medieval Philosophy /A (3)  
60.301 Modern Philosophy from Bacon to Hegel /A (3)
- Fifteen credit hours in philosophy (or 12 credit hours in philosophy and 3 credit hours in religion)

## Minor in Religion

### Minor Requirements

- A total of 21 credit hours, including at least 9 credit hours at the 300 level or above

### Course Requirements

- Nine credit hours chosen from the following:  
61.105 Religious Heritage of the West /A 2:1 (3)  
61.150 Introduction to the Old Testament (3)  
61.170 Introduction to the New Testament (3)  
61.185 Forms of the Sacred: Religions of the East /A 3:1 (3)  
61.220 Religious Thought /A 2:2 (3)
- Twelve credit hours in religion (or 9 credit hours in religion and 3 credit hours in philosophy)

## Combined B.A./M.A. Program in Philosophy or Philosophy and Social Policy

This program is designed for students who are interested in a career in philosophy, other careers where analytical skills are needed, or a stronger foundation in philosophy for further graduate education such as law school.

### Admission to the Program

The standards for admission to the undergraduate major must first be satisfied. Undergraduate philosophy majors should apply for admission to the B.A./M.A. program by the end of the junior year.

Admission is open to undergraduates whose grade point average in philosophy and overall is 3.00 (on a 4.00 scale). Applications must be accompanied by two letters of recommendation and a statement of purpose. Students should discuss their interest in the program and their course schedules with members of the faculty before submitting a formal application.

### Requirements

- All requirements for the B.A. in Philosophy degree
- All requirements for the M.A. in Philosophy or the M.A. in Philosophy and Social Policy degree

Students may apply 6 credit hours at or above the 500 level in philosophy to satisfy the requirements for both degrees.

## M.A. in Philosophy

### Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record and two letters of recommendation. The Graduate Record Examination (GRE) General is optional.

### Degree and Major Requirements

- At least 30 credit hours of approved graduate work, including 6 hours of 60.797 Master's Thesis Seminar

- Advancement to candidacy after successful completion of 12 credit hours of graduate work
- Proficiency examination in French or German as a tool of research
- One eight hour examination in philosophy (administered on two days, four hours each day); Examination fields 60.01A and 60.01B
- Thesis and oral defense of thesis

## M.A. in Philosophy and Social Policy

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have completed at least one introductory course in philosophy with a grade of B or better. Admission is based on academic record and two letters of recommendation. The Graduate Record Examination (GRE) is optional.

### Degree and Major Requirements

- Thirty-three hours of approved graduate work, including a 3 credit hour internship in an appropriate setting (e.g., National Institutes of Health (NIH), National Institute of Mental Health (NIMH), a hospital, a prison) followed by a substantial paper analyzing the ethical and social issues arising in that experience. Students who are already employed full-time may request permission to receive credit for appropriate earlier work or volunteer experience, but the paper will still be required. No thesis is required; in its place students take seminars among their required courses.
- One four hour comprehensive examination in philosophy, 60.01C

### Course Requirements

- 60.520 Seminar on Ethical Theory (3)
- 60.525 Seminar on Modern Moral Problems (3)
- 60.545 Seminar on Theories of Human Nature (3)
- 60.602 Nineteenth Century Philosophy (3)
- 60.603 Twentieth Century Philosophy (3)
- 60.641 Philosophy of the Social Sciences (3)
- Two elective graduate courses (6 credit hours) in philosophy or religion, with departmental approval
- Two courses in social science or social policy (6 credit hours), chosen with departmental approval from fields such as economics, sociology, anthropology, government, public administration, and justice

## M.A. in the History of Religions: Hindu Tradition

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have a suitable background in religious or South Asian studies. Admission is based on academic records and two letters of recommen-

dition. The Graduate Record Exam (GRE) General is recommended.

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work, including 6 credit hours of Master's Thesis Seminar
- Advancement to candidacy after successful completion of 12 credit hours of graduate work
- An examination in either French or German (another modern language may be substituted with approval)
- Comprehensive examination with the following three components, given during the last semester of course work: methods in the study of religions; the Hindu tradition; and thematic comparisons between the Hindu tradition and at least one other tradition of the student's choice
- Thesis on one particular aspect of the Hindu tradition, submitted during the final semester of course work

### Course Requirements

Thirty credit hours of approved graduate-level course work at the member universities of the Consortium of Universities of the Washington Metropolitan Area, including:

- Two semesters of either Sanskrit or Hindi (when appropriate, this requirement may be waived by examination)
- George Washington University course Rel. 158
- Georgetown University course 195-058
- Catholic University of America course 874
- American University course 61.673 Hinduism (3)
- One course in methodology
- Six credit hours of Master's Thesis Seminar at the student's home university (for American University students this is 61.797)

## Physics

**Chair** Romeo A. Segnan

### Full-Time Faculty

**Professor** R. Berendzen, E.R. Callen (Emeritus), M. Harrison (Emeritus), R.B. Kay, H.R. Reiss, R.A. Segnan, R.V. Waterhouse (Emeritus), J.A. White

**Assistant Professor** B.S. Flanders, R.M. Kille, F.A. Volkening

### Research Faculty

**Research Professor** R. Arnold, S. Rock

**Associate Research Professor** P. Bosted, Z. Szalata

Physics is the study of the basic properties of the physical universe: gravitation, electricity and magnetism, atomic and nuclear structure, and aggregate matter. The department supports three areas of research concentration: high-energy nuclear physics in an outstanding collaborative program with the Stanford Linear Accelerator

Center (SLAC); condensed matter physics with specializations in solid-state magnetism, physical acoustics, and the study of phase transitions in systems near their critical points; and intense field/laser studies on the interaction of intense electromagnetic radiation with matter. All students are encouraged to participate in research.

There are two tracks in the B.S. major. The applied track has all of the pre-engineering components, including seventeen hours of electronics. It prepares students for many technical positions which currently exist in industry and government. The graduate preparation track is for students who plan to enter M.S. and Ph.D. programs. It includes more high-level courses in quantum physics, mechanics, and electricity and magnetism.

The department also offers a B.S. degree in Audio Technology (see Audio Technology in this chapter).

Experimental and theoretical research projects are available for graduate students. The M.S. degree qualifies students for many research and development positions, including those at research laboratories. The Ph.D. degree is offered for students who have performed exceptionally in their M.S. work and who have obtained the sponsorship of a faculty member who will be the student's major professor. The department actively collaborates with many of the Washington area research laboratories; in appropriate cases, dissertation and thesis research may be performed at these laboratories.

## B.S. in Physics

### Admission to the Program

Formal admission to the major requires a grade point average of 2.00 (on a 4.00 scale) and approval of the department undergraduate adviser. The department counsels freshmen and transfer students.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 50 credit hours with grades of C or better

### Course Requirements

- 51.110 University Physics I / N 5:1 (4)
- 51.210 University Physics II / N 5:2 (4)  
(51.110 and 51.210 may be waived for students with exceptional high school preparation)
- 51.330 Classical Mechanics (3)
- 51.350 Electricity and Magnetism (3)
- 51.370 Modern Physics (3)

## 146 The College of Arts and Sciences

- 51.540 Experimental Physics (3)
- 15.110 General Chemistry I / N 5:1 (4)
- 15.210 General Chemistry II / N 5:2 (4) (or equivalent)
- 15.410 Physical Chemistry I (3)
- 41.221 Calculus I / N (4)
- 41.222 Calculus II / N (4)
- 41.223 Calculus III (4)
- 41.321 Differential Equations (3)
- 40.260 Introduction to Computing / N (4) or
- 40.280 Introduction to Computer Science I / N (4)

### Options

#### *Applied Physics Courses*

- 50.312 Electronics I (3)
- 50.313 Electronics II (3)
- 50.322 Electronics Lab I (2)
- 50.323 Electronics Lab II (2)
- 50.500 Digital Interfacing (4)
- 50.501 Microprocessors and Digital Audio (4)

#### *Graduate Preparation Courses*

- 51.530 Mechanics (3)
- 51.550 Electromagnetic Waves (3)
- 51.570 Introduction to Quantum Mechanics (3)
- 51.571 Special Topics In Applied Quantum Mechanics (3)
- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)

#### *Other Recommendations*

- 09.110 General Biology I / N 5:1 (4)
- 09.210 General Biology II / N 5:2 (4)
- 40.281 Introduction to Computer Science II / N (3)

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To fulfill requirements for University Honors in Physics, students may take Honors supplements to satisfy the advanced-level requirements, but are especially encouraged to meet with members of the Physics faculty to discuss independent research projects that could comprise both the advanced-level and capstone experiences. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Environmental Studies

The B.A. in Environmental Studies is an interdisciplinary program of studies designed to provide a basic understanding of the scientific and social processes that shape our environment. Each student follows one of two tracks, in Environmental Science or Environmental Policy. Both tracks provide a solid foundation based on the natural sciences as well as the social sciences, through coursework spanning many disciplines, including courses in the College of Arts and Sciences, the School of Interna-

tional Service, and the School of Public Affairs. For a description of this program, see the Interdisciplinary Degree Programs chapter in this catalog.

## Minor in Physics

- A total of 24 to 25 credit hours

### Course Requirements

- 51.105 College Physics I / N 5:1 (4) or
- 51.110 University Physics I / N 5:1 (4)
- 51.205 College Physics II / N 5:2 (4) or
- 51.210 University Physics II / N 5:2 (4)
- 41.221 Calculus I / N (4) and
- 41.222 Calculus II / N (4) or
- 41.211 Applied Calculus I / N (4) and
- 41.212 Applied Calculus II / N (3)
- 51.370 Modern Physics (3)
- 51.330 Classical Mechanics (3)
- 51.350 Electricity and Magnetism (3)

## M.S. in Physics

### Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record, two letters of recommendation (unless the previous degree was earned in the department), and approval of the department graduate advisers. The department counsels entering graduate students.

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work
- Two written comprehensive examinations: 51.001 Mechanics, Thermal and Statistical Physics, Mathematical Physics, and 51.002 Electromagnetism, Quantum Mechanics, Applications
- Nonthesis option: 6 credit hours of advanced work approved by the department graduate advisers
- Thesis option: an approved thesis in conjunction with 51.797 Master's Thesis Seminar

### Course Requirements

- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)
- 51.530 Mechanics (3)
- 51.550 Electromagnetic Waves (3)
- 51.570 Introduction to Quantum Mechanics (3)
- 51.565 Basic Concepts in Statistical Physics (3) or
- 15.546 Thermodynamics and Statistical Physics (3)
- Two courses chosen from the following:
  - 51.630 Mechanics I (3)
  - 51.631 Mechanics II (3)
  - 51.650 Electromagnetic Theory I (3)

- 51.651 Electromagnetic Theory II (3)
- 51.670 Quantum Mechanics I (3)
- 51.671 Quantum Mechanics II (3)

- Six credit hours to fulfill the thesis or nonthesis option

## Ph.D. in Physics

### Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record, two letters of recommendation (unless the previous degree was earned in the department), and approval of the department graduate advisers. The department counsels entering graduate students.

### Research Concentrations

Nuclear high-energy experimental physics, condensed matter physics, and intense field/laser physics

### Degree and Major Requirements

- A total of 72 credit hours of approved graduate work
- Advancement to candidacy after qualifying examination and approval of the dissertation proposal by the department graduate advisers
- Proficiency in a language or computer science or another tool of research approved by the student's dissertation committee
- The M.S. comprehensive examinations, 51.001 and 51.002, both passed with distinction
- Four approved comprehensive examinations: 51.005, 51.006, 51.007, and 51.008 (oral) covering the subject area of the dissertation and material relevant to the area of research. The examinations 51.001 and 51.002 may be substituted for 51.005.
- Dissertation prepared in consultation with the student's dissertation committee and approved by that committee and the department graduate advisers
- Specialized seminars in the area of research concentration coordinated with the student's major professor

### Course Requirements

- 51.630 Mechanics I (3)
- 51.631 Mechanics II (3)
- 51.650 Electromagnetic Theory I (3)
- 51.651 Electromagnetic Theory II (3)
- 51.670 Quantum Mechanics I (3)
- 51.671 Quantum Mechanics II (3)
- 51.799 Doctoral Dissertation Seminar (12)

## Pre-engineering

**Faculty Liaison** Anita La Salle, Department of Computer Science and Information Systems

**Administrative Liaison** Kay Mussell, Associate Dean for Undergraduate Affairs, College of Arts and Sciences

The American University offers cooperative five-year engineering programs through the Washington University in St. Louis and the University of Maryland in College Park. Through these programs, American University students can combine the advantages of both liberal arts and professional education. Students are awarded two bachelor's degrees in a five-year period.

### The Three-Two Program

Students spend three years on the American University campus concentrating in a major field in the College of Arts and Sciences. In the third year, with recommendation of a pre-engineering adviser, students apply to the engineering program at either Washington University or the University of Maryland. After admission to the program, the fourth year of study is spent at the cooperating university. Once the student completes the requirements for the American University major (generally at the end of the fourth year), the first bachelor's degree is awarded. After completion of the engineering requirements during the fifth year, the student receives a bachelor's degree in engineering from the cooperating university.

### Plan of Study at The American University

Students work closely with a faculty adviser in one of the natural science departments, the Department of Mathematics and Statistics, the Department of Computer Science and Information Systems, or the office of the Associate Dean for Undergraduate Affairs. Advisers will individually tailor course selection to meet the student's interests and needs. Students are generally advised to major in either mathematics or natural science, and to maintain a high grade point average. If, however, the student chooses to complete a major in the arts, humanities, or social sciences, he or she may do so, provided that the engineering program requirements are also satisfied. Completion of basic courses must be done during the first three years of study in order to complete the requirements for an engineering degree in five years. Courses with grades below C will not transfer to the cooperating schools.

### Course Requirements

The engineering programs at Washington University and the University of Maryland have basic requirements which must be completed before entrance. The requirements cover a broad range of study.

### Washington University

- English: evidence of ability to communicate effectively in written form as demonstrated by course work, acceptable examination scores, or college certification of proficiency

- Calculus: sequence through multivariate calculus plus differential equations
- Physics: a two-course sequence employing calculus and including laboratory
- Chemistry: a two-course sequence including laboratory
- Computer programming: one course in programming
- Humanities and social sciences: at least eighteen credit hours. At least 8 of the 18 credit hours must be in one department, including one course at the junior or senior level. No more than 9 credit hours of the performing arts or skill courses may count toward the required 18 credit hours. Courses having a distinctly mathematical or natural science content, even if listed under the humanities or social science department, are not acceptable for this requirement.
- Chemical Engineering: two-course sequence in organic chemistry

### Special Opportunity

A student may also plan such combined degree programs as B.A./B.S./M.S. and B.A./B.S./M.B.A. by allowing six years for such programs.

### University of Maryland

- English: two courses in English composition
- Mathematics: two or three years of mathematics, including calculus and differential equations
- Physics: two years of general physics with laboratory and more in-depth study in mechanics and in electromagnetism or thermodynamics
- Chemistry: one year of general chemistry with laboratory
- Computer programming: one course in programming
- Humanities and social sciences: five courses in the humanities and the social sciences
- Chemical Engineering: two-course sequence in organic chemistry

## Prelaw

### Prelaw Advisers

Carl E. Cook, College of Arts and Sciences  
 Arthur Harris, Kogod College of Business Administration  
 Athena Argypopoulos, School of Public Affairs  
 Suzanne Skillings, School of International Service  
 Merry Mendelson, School of Communication

In considering law school, it is important that the prelaw student understand law schools' educational philosophy. As the *Law School Admission Bulletin* states: "Any course, regardless of field, that helps you develop clear and systematic thinking, command of the English language, and a broad understanding of our society constitutes sound preparation for the study of law. Thus, law schools do not recommend specific undergraduate majors for prelaw students." The prelaw student should also realize that admission to law school is selective. Students contemplating careers in law should plan their undergraduate study

to undertake a substantial academic curriculum and acquire a background of outstanding extracurricular activities.

## Undergraduate Program in Prelaw

### General Information

The student aspiring to the profession of law may select any major. The university does not offer a prescribed prelaw major.

The student interested in prelaw preparation follows the normal procedure for declaring a major in one of the schools or departments or in gaining approval for an interdisciplinary program of study.

By the end of the sophomore year, the prelaw student chooses a major. The student satisfies the requirements of this major as specified by the department or the approved interdisciplinary program. Whatever the choice of major, the prelaw student's program should be supported by a broad selection of courses from mathematics, the natural sciences, the social sciences, and the humanities.

### Recommendations

Courses recommended by law schools include philosophy, literature and advanced writing courses, history, political science, accounting, business administration, economics, mathematics, languages, and other courses demanding logical thinking, analytical reasoning, or verbal proficiency.

The Law School Admission Test (LSAT) is required of every applicant to law school. It is strongly recommended that this test be taken in June before the senior year. With this test date, students can appraise their prospects and consider retaking the examination in October or December or both, or, if necessary, make alternate plans. Students apply directly to the Law School Admissions Service (LSAS) to take the test on the American University campus and should register six weeks before the test date. The Law School Admission Test applications are available in the offices of the prelaw advisers of the schools mentioned above. The *Pre-Law Handbook*, published by the Law School Admissions Service, is helpful in describing law schools and their requirements. This handbook is available in the offices of the prelaw advisers and in the American University campus book store. Also available from the prelaw advisers is the *Pre-Law Guide: Questions and Answers*, which discusses the preparation for law school, the mechanics of applying, and the law school experience itself.

### Honor Society

Qualified sophomores, juniors, and seniors may apply for membership in the university's prelaw honor society, Sigma Phi Omega. The prelaw honor society sponsors various activities related to the law school application process and the law school experience. It also hosts guest speakers who discuss social issues as they relate to the legal profession. All programs sponsored by the prelaw honor society are open to the university community. Consult the School of Public Affairs for an application and additional information.

# Premedical Programs

**Coordinator** Ida Chow, Department of Biology

**Administrative Liaison** Kay Mussell, Associate Dean for Undergraduate Affairs, College of Arts and Sciences

The premedical programs of College of Arts and Sciences are available to students throughout the university, both undergraduate and graduate, to help them prepare for professional study in medicine, dentistry, veterinary medicine, and other health allied careers. Traditionally, most premedical students have majored in the natural sciences. However, the medical professions are expressing increasing interest in students with a broadly based liberal education, reflecting the broader social, ethical, and cultural roles played by members of the health profession in contemporary life.

## Premedical Curriculum

Most health professional schools require the same foundation courses in mathematics and the sciences, along with a full year of college level writing. It is expected that students will complete their mathematics requirements in the freshman year; many professional schools require a year of calculus. All science courses must include laboratory components.

The following sequence of courses permits the most convenient means of completing the necessary required courses in time to take the Medical College Admissions Test (MCAT) or the Dental Aptitude Test (DAT) in the spring of the junior year. These tests should be taken no later than one year prior to matriculation in medical or dental school. The Veterinary College Admission Test (VCAT) or the Graduate Record Examination (GRE) must be taken in the fall of the senior year for students interested in veterinary medicine. Most veterinary schools require the GRE instead of the VCAT.

**Note:** Potential Biology majors must take 09.110 General Biology I and 09.210 General Biology II in their freshman year.

### Freshman Year

- 15.110 General Chemistry I / N 5:1 (4)
- 15.210 General Chemistry II / N 5:2 (4)
- 41.170 Precalculus Mathematics / N (3)
- 41.221 Calculus I / N (4)

### Sophomore Year

- 09.110 General Biology I / N 5:1 (4)
- 09.210 General Biology II / N 5:2 (4)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)

### Junior Year

- 51.110 University Physics I / N 5:1 (4)
- 51.210 University Physics II / N 5:2 (4)

Students are also encouraged to take two or more upper-level courses in biology (09.xxx) and chemistry (15.xxx). Consult with the coordinator of the premedical programs for a list of the relevant courses.

The above sequence presumes that a student has already decided by the beginning of his or her freshman year to pursue a premedical course of study. However, students who do not make this decision until the sophomore or even the beginning of the junior year are not precluded from selecting a career in health sciences. The American University provides sufficient flexibility and resources to enable serious students to prepare for medical studies. Students who do not decide on a medical career until the middle of their undergraduate studies or later may need to complete their premedical requirements during summers or in a post-baccalaureate year.

## Academic Advising

Students interested in the premedical programs should contact the coordinator for premedical programs as soon as possible. The coordinator meets with students each year to review their academic progress and to discuss their subsequent course of study at The American University. Working in concert with the student's academic adviser in the major area of study, the coordinator helps assure a timely completion of both degree and premedical requirements.

## On-Campus Programs

Junior and senior premedical students are encouraged to engage in independent research projects in the science departments on campus (Biology, Chemistry, Physics, and Psychology), which may lead to publication and presentation of papers. Alpha Epsilon Delta, the national premedical honor society, has a chapter on the American University campus (the District of Columbia Beta Chapter). A Health Careers Forum is held each semester, giving an overview of the admissions process to medical, dental, and veterinary schools. In addition, representatives of health allied professions discuss career opportunities and provide an institutional perspective on future trends in health related fields.

## Internship Opportunities

Many opportunities for internships, volunteer work, and field studies are available at the National Institutes of Health (NIH), the Walter Reed Army Institute of Research, and the Smithsonian Institution. In addition to gaining first-hand experience in basic research in such areas as immunology, microbiology, and molecular genetics, students may obtain academic credit through an internship. Similar opportunities are available for students volunteers gaining clinical experience at many area hospitals and clinical centers, such as Children's National Medical Center, Columbia Hospital for Women Medical Center, and NIH.

## Application and Admissions

Since 1988, the number of applicants to medical schools has increased about 15 percent each year. At American University, nearly 70 percent of the students who have applied to medical, dental, or veterinary schools have been accepted by one or more professional school (the national average is 50 percent). Students from the American University's premedical programs have been admitted to a wide range of professional schools, including the Medical College of Virginia, the Hahnemann School of Medi-

cine, The Johns Hopkins University, The University of Chicago, and Duke University.

The Premedical Evaluations Committee interviews students in the program and thoroughly examines their academic records, extracurricular activities, and letters of recommendation in order to prepare a comprehensive letter of evaluation, which is sent to the professional schools. These interviews are usually completed no later than one year prior to the student's matriculation in the professional school.

## Psychology

**Chair** Carol S. Weissbrod

### Full-Time Faculty

**Professor** D.L. Chambless, J.J. Gray, B.W. McCarthy, E.M. McGinnies (Emeritus), S.R. Parker, A.L. Riley, M. Riech (Emerita), A.M. Silberberg, B.M. Slotnick, S.J. Weiss

**Associate Professor** A.H. Ahrens, D.A. Haaga, F.Z. Peynircioglu, C.S. Weissbrod, B.T. Yates

**Assistant Professor** B.D. Fantle, T.A. Kelly

The undergraduate program in the Department of Psychology offers the student an opportunity to appreciate psychology's diversity and its applications. Courses are offered in clinical, social, personality, developmental, and experimental psychology. Advanced special topics courses in these and related areas are often available. Students may design programs that approach psychology as a social science, a natural science, or a combination of the two. Advanced students have the opportunity to become actively involved in both psychological research and paraprofessional counseling. During their junior and senior years, majors are encouraged to take small, specialized seminars and engage in supervised independent study. Undergraduate majors also have opportunities for internship experience with community mental health agencies and may participate in ongoing research within the department. The program is sufficiently flexible and broad to satisfy career goals and provide a solid background for graduate study.

### Affiliations

Washington, D.C. Veterans Administration Hospital; Baltimore Veterans Administration Hospital; St. Elizabeth's Hospital; Community Psychiatric Center (Bethesda); Georgetown University Hospital (Department of Pediatrics); Kennedy Institute (Baltimore); Children's Hospital (Washington, DC) Institute for Behavioral Resources; George Washington University Medical Center; North Center (Washington, DC); The Johns Hopkins University School of Medicine; Veterans Administration Medical Center (Perry Point, MD); Alexandria Community Mental Health Center; Woodburn Center for Community Mental Health; Eastern Virginia Medical School, Department of Psychiatry (Norfolk, VA).

## B.A. in Psychology

### Admission to the Program

Formal admission to the major requires departmental approval.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 40 credit hours with grades of C or better

### Course Requirements

- 57.105 Psychology: Understanding Human Behavior /S 4:1 (3)
- 57.115 Experimental Foundations of Psychology /N 5:1 (3)
- 42.202 Basic Statistics /N (4)
- One course in Bio-psychology chosen from the following:  
57.240 Drugs and Behavior /N 5:2 (3)  
57.318 Fundamentals of Human Neuropsychology (3)  
57.325 Neurobiological Bases of Behavior /N (3)  
57.360 The Evolution of Behavior (3)
- One course in Learning and Cognition chosen from the following:  
57.200 Behavior Principles /N 5:2 (3)  
57.220 The Senses /N 5:2 (3)  
57.300 Cognitive Psychology (3)  
57.370 Learning and Behavior (3)
- Two courses in the Individual, the Situation, and Psychological Health chosen from the following:  
57.205 Social Psychology /S 4:2 (3)  
57.215 Abnormal Psychology and Society /S 4:2 (3)  
57.230 Theories of Personality /S 2:2 (3)  
57.333 Health Psychology (3)  
57.350 Child Psychology (3)
- Psychology (57.xxx) electives to complete the required 40 hours  
Students will be advised concerning the 300-500-level courses available to them as electives.

**Note:** No more than a combined total of 6 credits of 57.390 Independent Reading Course in Psychology, 57.392 Cooperative Education Field Experience, 57.490 Independent Study Project in Psychology, and 57.491 Internship, will apply toward fulfilling major requirements.



## Recommendations

Students should consult their faculty advisers in planning their schedules. Students interested in careers such as those in research and teaching, mental health professions, and personnel and industrial psychology will want to choose curriculums suited to their goals. The breadth of the field of psychology and of the department's course offerings make careful planning important.

## University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Minor in Psychology

- A total of 21 credit hours (seven courses) in psychology with grades of C or better

## Course Requirements

- 57.105 Psychology: Understanding Human Behavior /S 4:1 (3)
- 57.115 Experimental Foundations of Psychology /N 5:1 (3)
- Three credit hours (one course) from Bio-psychology or Learning and Cognition courses (see major requirements above)
- Three credit hours (one course) from the Individual, the Situation, and Psychological Health courses (see major requirements above)
- Electives to complete the required 21 hours

## Combined B.A./M.A. Program in General Psychology

This program enables full-time students to complete both the B.A. and M.A. in Psychology in five years.

## Admission to the Program

Students should apply for this program no later than the first semester of the senior year and no earlier than the first semester of the junior year. Students must have a 3.00 grade point average (on a 4.00 scale) in psychology and statistics courses and must have completed at least half of the credit hours required for the B.A. in Psychology. The undergraduate statistics course required for the B.A. must be completed before applying to the M.A. program in General Psychology. Students must submit a completed graduate application form (through the Office of Admissions), Graduate Record Examination (GRE) scores for the General (Verbal, Quantitative, and Analytic) and Advanced Psychology sections, two letters of recommendation, and copies of all college transcripts.

## Degree and Major Requirements

- All requirements for the B.A. degree with a major in psychology
- All requirements for the M.A. degree with a major in general psychology

Students may apply two 500-level courses (up to 6 credit hours) toward meeting the requirements of both degrees.

## M.A. in General Psychology

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination (GRE) General and Advanced Psychology examinations and have completed three undergraduate psychology courses and one undergraduate statistics course before application. Admission is based on academic record, test scores, and two letters of recommendation.

Completion of the degree does not necessarily lead to admission to the Ph.D. program; students who wish to be considered for the Ph.D. program must reapply. Applicants with a B.A. who wish to obtain a Ph.D. in Psychology from The American University should apply directly to the Ph.D. program. If they do not have an M.A., they will earn one as part of the Ph.D. program. See the following description of the Ph.D. program and its clinical and experimental tracks for more information.

Up to 6 credit hours of graduate course work in psychology from another university or up to 12 credit hours of graduate course credit taken at The American University may be transferred, provided that these credits were not counted toward another degree. These transfers of credit are subject to approval by the director of the M.A. program.

### Tracks

General, Personality/Social, and Experimental/Biological

## Degree and Major Requirements

- A total of 33 credit hours of approved graduate work
  - Students are expected to earn grades of B or better. A student who earns lower than a B- in more than one course is subject to academic probation.
  - The written General Comprehensive Examination (offered every fall, spring, and summer term)
  - Thesis option: The master's thesis involves an original research project. Students must prepare a thesis proposal, collect and analyze data, submit a written thesis, and give an oral defense.
- A nonthesis option is available in the General Psychology track only (see Course Requirements, below).

## Course Requirements

### General Psychology Track

- Two courses chosen from the following:  
57.505 Advanced Theories of Personality (3)  
57.514 Industrial/Organizational Psychology (3)  
57.540 Advanced Social Psychology (3)

- 57.545 Psychology of Sex Similarities and Differences (3)
- 57.551 Psychopathology: Theory and Research (3)
- 57.560 Advanced Child Psychology (3)
- 57.570 Behavioral Medicine (3)
- 57.596 An appropriate Selected Topics (.596) course in the Personality/Social area may be used to fulfill this requirement with permission of the student's adviser (3)
- 57.633 Psychological Assessment I (3)
- Two courses chosen from the following:
  - 57.501 Physiological Psychology (3)
  - 57.513 Neuropharmacology: The Biochemistry of Behavior (3)
  - 57.518 Advanced Human Neuropsychology (3)
  - 57.530 Conditioning and Learning (3)
  - 57.575 Human Cognition (3)
  - 57.585 Advanced Human Memory (3)
 A graduate seminar in experimental psychology or neuroscience (3)
- One graduate statistics course

**Nonthesis Option (for General Psychology track only):**

- Six credit hours from the following:
  - 57.550 Psychological Research I (3)
  - 57.601 Psychological Research II (3)
  - 57.698 Directed Research (3-6)
- Four graduate elective courses (12 credit hours), of which at least 6 credit hours are from the Department of Psychology (57.xxx).

**Thesis Option:**

- 57.550 Psychological Research I (3)
- Six credit hours from the following:
  - 57.796 Master's Thesis Seminar (3)
  - 57.797 Master's Thesis Research (1-3)
- Three graduate elective courses (9 credit hours), of which at least 6 credit hours are from the Department of Psychology (57.xxx).

**Personality/Social Psychology Track**

- Four courses chosen from the following:
  - 57.505 Advanced Theories of Personality (3)
  - 57.514 Industrial/Organizational Psychology (3)
  - 57.533 Cognitive Behavior Therapy (3)
  - 57.540 Advanced Social Psychology (3)
  - 57.545 Psychology of Sex Similarities and Differences (3)
  - 57.551 Psychopathology: Theory and Research (3)
  - 57.560 Advanced Child Psychology (3)
  - 57.570 Behavioral Medicine (3)
  - 57.596 An appropriate Selected Topics (.596) course in the Personality/Social area may be used to fulfill this requirement with permission of the student's adviser (3)

A graduate seminar in clinical, personality, or social psychology (3)

- Two courses from the following:
  - 57.501 Physiological Psychology (3)
  - 57.513 Neuropharmacology: The Biochemistry of Behavior (3)
  - 57.518 Advanced Human Neuropsychology (3)

- 57.530 Conditioning and Learning (3)
- 57.575 Human Cognition (3)
- 57.585 Advanced Human Memory (3)
- A graduate seminar in experimental psychology or neuroscience (3)

- One graduate statistics course
  - 57.550 Psychological Research I (3) or 57.601 Psychological Research II (3)
  - One graduate elective
  - Six credit hours from the following:
    - 57.796 Master's Thesis Seminar (3)
    - 57.797 Master's Thesis Research (1-3)
- Experimental/Biological Psychology Track**

- Four courses from the following:
  - 57.501 Physiological Psychology (3)
  - 57.513 Neuropharmacology: The Biochemistry of Behavior (3)
  - 57.515 Biopsychology Laboratory Methods (4)
  - 57.518 Advanced Human Neuropsychology (3)
  - 57.530 Conditioning and Learning (3)
  - 57.575 Human Cognition (3)
  - 57.585 Advanced Human Memory (3)
  - 57.690 Independent Study Project in Psychology in a recognized area of experimental/biological psychology (3)
- A graduate seminar in experimental psychology or neuroscience

- Two courses from the following:
  - 57.505 Advanced Theories of Personality (3)
  - 57.514 Industrial/Organizational Psychology (3)
  - 57.540 Advanced Social Psychology (3)
  - 57.545 Psychology of Sex Similarities and Differences (3)
  - 57.551 Psychopathology: Theory and Research (3)
  - 57.560 Advanced Child Psychology (3)
  - 57.570 Behavioral Medicine (3)
  - 57.596 An appropriate Selected Topics (.596) course in the Personality/Social area may be used to fulfill this requirement with permission of the student's adviser (3)
- 57.633 Psychological Assessment I (3)
- One graduate elective
- One graduate statistics course
- 57.550 Psychological Research I (3) or 57.601 Psychological Research II (3)
- Six credit hours from the following:
  - 57.796 Master's Thesis Seminar (3)
  - 57.797 Master's Thesis Research (1-3)

## Ph.D. in Psychology

There are two tracks within the Doctoral Program: Clinical (APA accredited) and Experimental. Students who have been admitted to the doctoral program in psychology but do not have an M.A. in psychology that has been accepted by the department must complete the degree requirements for the M.A. in General Psychology (thesis

option) before they can be awarded the doctorate. The master's degree is awarded on completion of the M.A. course requirements, successful defense of a research thesis, and completion of the General Comprehensive Examination.

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination (General and Advanced Psychology tests). Admission is based on test scores, previous academic performance, and letters of recommendation. Those applicants to the Clinical Psychology track judged to be among the top 30 or 35 are invited for an interview, and the final selection is based on all information, including the interview. Students are admitted for full-time study only.

### Tracks

Clinical Psychology and Experimental Psychology

### Degree and Major Requirements

- A total of 72 credit hours of approved graduate work (including credits applied from the M.A. in General Psychology)
- Two tools of research are required but do not result in course credit toward the degree. The tool requirement is flexible and can be met in a variety of ways:
  - (1) demonstration of knowledge of a language relevant to the student's career;
  - (2) demonstration of mastery in a computer program language;
  - (3) satisfactory completion of one skill-oriented graduate course offered by another department at The American University or by nonpsychology departments of the Consortium universities;
  - (4) service in one clinical institute which is approximately equal in time and difficulty to a full course; and
  - (5) supervised tool training in other settings when approved by the student's adviser and the department chair.
- Four comprehensive examinations outlined by advisers or other faculty members. They are designed to be more comprehensive and professional than conventional comprehensive examinations. They involve students in the kinds of activities they will later engage in as professional psychologists. At least one of the four comprehensives must be oral and at least two must be written.
- Dissertation: A written proposal for the dissertation is to be submitted to the dissertation committee by the middle of the second semester of the third year. The original proposal, or a revision thereof, should meet the requirements of the committee by the end of the second semester. This allows adequate time for completion of a quality dissertation even if initial experimentation turns out to be exploratory in nature.
- Clinical Psychology track: As part of the doctoral clinical track requirements, clinical students serve an internship in an appropriate setting outside the university.

### Course Requirements

#### Clinical Psychology Track

- 57.502 History and Systems of Psychology (3)
- 57.550 Psychological Research I (3)
- 57.551 Psychopathology: Theory and Research (3)
- 57.580 Behavior Therapy Practicum (3)
- 57.609 Ethics and Professional Practices (3)
- 57.630 Psychotherapy: Theory, Research, and Practice (3)
- 57.633 Psychological Assessment I (3)
- 57.650 Assessment of Intellectual Functions (3) and 57.651 Personality Testing (3) or  
Other courses in Intelligence and Personality Testing may be substituted with permission of the student's adviser.
- 57.680 Practicum Training I (3)
- 57.681 Practicum Training II (3)
- 57.791 Clinical Seminar in Psychotherapy I (3)
- 57.792 Clinical Seminar in Psychotherapy II (3)
- Six credit hours of statistics
- Six credit hours from the following:
  - 57.798 Doctoral Dissertation Seminar (3)
  - 57.799 Doctoral Dissertation Research (1-9)
- One course in Biological Bases of Behavior from the following:
  - 57.501 Physiological Psychology (3)
  - 57.513 Neuropsychology: The Biochemistry of Behavior (3)
  - 57.518 Advanced Human Neuropsychology
- One course in Cognitive-Affective Bases of Behavior from the following:
  - 57.530 Conditioning and Learning (3)
  - 57.575 Human Cognition (3)
  - 57.585 Advanced Human Memory (3)
- One course in Individual Bases of Behavior from the following:
  - 57.505 Advanced Theories of Personality (3)
  - 57.560 Advanced Child Psychology (3)
- One course in Social Bases of Behavior from the following:
  - 57.521 Ethnic and Minority Issues (3)
  - 57.540 Advanced Social Psychology (3)
  - 57.545 Psychology of Sex Differences (3)

#### Experimental Track

- 57.550 Psychological Research I (3)
- 57.502 History and Systems of Psychology (3)
- Six credit hours of statistics
- At least six credit hours from the following:
  - 57.798 Doctoral Dissertation Seminar (3)
  - 57.799 Doctoral Dissertation Research (1-9)
- Three courses from Group I with at least one course each from Subgroups A and B:

**Group 1***Subgroup A*

- 57.551 Psychopathology: Theory and Research (3)
- 57.630 Psychotherapy: Theory, Research, and Practice (3)
- 57.633 Psychological Assessment I (3)

*Subgroup B*

- 57.505 Advanced Theories of Personality (3)
- 57.540 Advanced Social Psychology (3)
- 57.560 Advanced Child Psychology (3)

- Three courses from Group 2 with at least one course each from Subgroups A and B:

**Group 2***Subgroup A*

- 57.501 Physiological Psychology (3)
- 57.513 Neuropharmacology (3)
- 57.518 Advanced Human Neuropsychology (3)

*Subgroup B*

- 57.530 Conditioning and Learning (3)
- 57.575 Human Cognition (3)
- 57.585 Advanced Human Memory (3)

**Special Opportunities**

Special research opportunities in laboratories at the National Institutes of Health and related research institutions are available for students in both experimental and clinical psychology.

## Sociology

**Chair** Samih K. Farsoun

**Full-Time Faculty**

**Professor** A. Motz Blum (Emerita), M. Cantor (Emerita), E. Chow, S. Farsoun, B. Kaplan (Emerita), K. Kusterer, F. Lorimer (Emeritus), G. Mueller (Emeritus), K. Petersen, J.C. Scott (Emeritus), J. Siegenthaler, R. Stone, A. Van der Sluis (Emeritus)

**Associate Professor** G.A. Young

**Assistant Professor** B. Dickerson, R. Manning, R. Spalter-Roth

Sociology explores how individuals, through their collective actions, create and change patterns of social relations and how, in turn, these social relations influence people's lives. Sociologists focus on three major levels of analysis, from whole societies as component parts of wider systems, to institutions as component sectors of society, to individuals as participants in two-person groups. They also study varied processes of social change, from migration to social mobility, from urbanization to mass communication. Finally, sociologists study a wide variety of themes, from racial and ethnic relations to social problems and political change. This quest for knowledge is both an end in itself and a pathway for informed social change.

The graduate program in the department emphasizes sociological theory; social research (especially quantitative); and substantive areas which include macrosociology,

social stratification, gender and family, and applied sociology. The department also has a joint degree program in Sociology: Justice with the Department of Justice, Law and Society in the School of Public Affairs.

The undergraduate program requires majors to pursue core sequences in sociological theory and social research and substantive tracks in social policy and social change. Consult the Department of Sociology, McCabe 232, (202) 885-2475, for detailed descriptions of undergraduate and graduate degree programs.

## B.A. in Sociology

**Admission to the Program**

Formal admission to the major requires department approval.

**University Requirements**

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

**General Education Requirements**

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

**Major Requirements**

- A total of 43 credit hours with grades of C or better

**Course Requirements**

- 65.100 American Society /S 4:1 (3)
- 65.320 Introduction to Social Research (3)
- 65.410 Classical Sociological Theory (3)
- 65.411 Contemporary Sociological Theory (3)
- 42.202 Basic Statistics /N (4)
- Three hours of advanced research methods (65.42x)
- Fifteen credit hours of electives in sociology, including 6 hours at the 300 level or above and 3 hours at the 500 level
- Nine credit hours of electives, including 6 hours beyond the introductory level selected from one of the following areas: anthropology, computer science, economics, history, statistics, philosophy, political science, or psychology; electives should be selected in consultation with a departmental adviser

**Recommendations**

*All majors:* Complete 65.100 American Society and at least one 200 level and 300 level elective in sociology before the junior year. Complete 65.320 Introduction to Social Research, 65.410 Classical Sociological Theory, 65.411 Contemporary Sociological Theory, and 65.42x during the junior year. Choose sociology electives from at least two of the following areas: macrosociology (65.x3x), social psy-

chology (65.x4x), social stratification (65.x5x), work, occupations, and organizations (65.x6x), and other (65.x0x).

*Majors interested in graduate study in sociology or related fields:* At least one course in statistics; additional sociology electives from several areas.

*Majors interested in careers in social research:* Select 65.491 Internship as sociology elective after completing 65.320 Introduction to Social Research; select statistics or computer science as a related field.

*Majors interested in careers in social work:* Select 65.491 Internship as sociology elective in the junior or senior year; take at least two courses in social psychology (65.x4x) as sociology electives; select psychology as a related field.

### Special Opportunities

- Undergraduate assistantships: Assistantships, carrying a stipend of \$300 and a work commitment of seven hours per week, are awarded competitively each semester to declared majors with a cumulative grade point average of 3.00 who have completed 11 or more credit hours of course work in sociology. Consult the department for details.
- Internships: The department offers internship opportunities for majors and minors in the fields of social service, social change, social policy, and social research.
- Cooperative Education: The department encourages participation in the co-op program and makes placements each semester in social change, social action, research, and social work agencies. A special supervising sociology co-op program is conducted each year for residence hall advisers.
- Double Majors: Because the department requires only ten courses in sociology and one in statistics, a student frequently can work out a double or joint major with other fields such as anthropology, business administration, communication, economics, history, international studies, political science, and psychology. Details can be worked out with department faculty.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

### Minor in Sociology

- A total of 21 credit hours

#### Course Requirements

- 65.100 American Society / S 4:1 (3)
- 65.320 Introduction to Social Research (3)
- 65.410 Classical Sociological Theory (3)

- An advanced course in theory (65.411 Contemporary Sociological Theory) or methods (65.42x)
- One course sociology (65.x0x) at the 200 level
- Two courses in sociology (65.x0x) at the 300 level or above

## Combined B.A./M.A. Program in Sociology or Applied Sociology

### Admission to the Program

Students should apply for this program no later than the first semester of the senior year and no earlier than the second semester of the junior year. Students must have an overall 3.00 (on a 4.00 scale) grade point average. Students must submit a completed graduate application form through the Office of Admissions. Admissions decisions to this combined program follow the same procedures and standards used to evaluate graduate applicants to the M.A. programs.

Students interested in applying to this combined program should consult with their adviser and other faculty members before formal application is begun.

### Requirements

- All requirements for the B.A. in Sociology
- All requirements for either the M.A. in Sociology or the M.A. in Applied Sociology

Students may apply 6 credits of course work in sociology, including 42.514 Statistical Methods, to satisfy the requirements of both degrees.

## M.A. in Applied Sociology

### Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. A background of social science course work is preferred. Admission to the program is at the discretion of the department's Graduate Committee and is based on academic record and letters of recommendation from two persons able to evaluate the applicant's potential for graduate study in sociology. Provisional admission may be considered on a case-by-case basis where minimum university requirements are not fully met (see the Graduate Study chapter, Provisional Standing section in this catalog). Although Graduate Record Examination (GRE) test scores are not required for admission, students are strongly encouraged to submit them if they wish to compete successfully for university Graduate Honor Awards.

The M.A. in Applied Sociology program is a sequence designed for students beginning their graduate program in the fall. M.A. candidates accepted for spring admission may have special problems related to course sequences that they should resolve with the department before they begin course work.

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work including the research requirement

- Statistics tool of research examination designated by the Department of Sociology, or a graduate level statistics course with a grade of B or better (3 credit hours) approved by the department
- Two comprehensive examinations: Methods of Social Research and Applied Sociology. A maximum of two attempts on each examination is permitted. The first attempt on the examination in Methods of Social Research must be taken in August before beginning the second year in the program; the second attempt must be taken in the next examination period in the fall semester (late November or early December).
- Research requirement (9 credits):  
The following 9 credits encompass a research project under the guidance of a professor of the student's choice, and constitute the M.A. non-thesis research requirement:  
65.690 Independent Study Project in Sociology (3)  
In the student's field of concentration  
65.691 Internship (3)  
65.795 Master's Research: Independent Study in Sociology (3)

### Course Requirements

- 65.580 Social Policy Analysis (3)
- 65.611 Modern Sociological Theory (3)
- 65.620 Social Research I (3)
- 65.621 Social Research II (3)
- 65.680 Social Policy Research (3)
- Three credit hours in one other field of concentration selected from the following: Macrosociology, Social Stratification, or Gender and Family
- Three credit hours selected from the following:  
A 500-level statistics course which has 42.514 Statistical Methods as a prerequisite  
03.542 Principles of Applied Anthropology (3)  
54.604 Public Program Evaluation (3)  
55.511 Concepts in Systems and Information (3)  
60.525 Seminar on Modern Moral Problems (3)  
65.720 Seminar in Social Research (3)

Students must complete 65.620 and 65.621 (Social Research I and II) during their first year in the degree program.

## M.A. in Sociology

### Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. A background of social science course work is preferred. Admission to the program is at the discretion of the department's Graduate Committee and is based on academic record and letters of recommendation from two persons able to evaluate the applicant's potential for graduate study in sociology. Provisional admission may be considered on a case-by-case basis where minimum university requirements are not fully met (see the Graduate Study chapter, Provisional Standing section in this catalog). Although Graduate Record Examination (GRE) test scores are not required for

admission, students are strongly encouraged to submit them if they wish to compete successfully for university Graduate Honor Awards.

The M.A. in Sociology program is a sequence designed for students beginning their graduate program in the fall. M.A. candidates accepted for spring admission may have special problems related to course sequences that they should resolve with the department before they begin course work.

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work including the research requirement
- Statistics tool of research examination designated by the Department of Sociology, or graduate level statistics course with a grade of B or better (3 credit hours) approved by the department
- Two comprehensive examinations: Methods of Social Research and Sociological Theory. Full-time students must take both examinations in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other in August before beginning their third year of study. A maximum of two attempts on each examination is permitted, one in August and one in the next examination period in the fall semester (late November or early December).
- Research requirement (6 credits): The first half may be satisfied with completion of an advanced seminar in research methods, an advanced seminar in the student's field of concentration, or an independent study course in the field of concentration. To satisfy the second half of the research requirement, the student must enroll in 65.795 Master's Research: Independent Study in Sociology under the guidance of a professor of the student's choice and complete a substantial research report on a topic related to the field of concentration.

### Course Requirements

- 65.610 History of Sociological Theory (3)
- 65.611 Modern Sociological Theory (3)
- 65.620 Social Research I (3)
- 65.621 Social Research II (3)
- Two courses (6 credit hours) in one field of concentration selected from the following: Macrosociology, Social Stratification, Gender and Family, and Applied Sociology
- Research requirement (6 credit hours)
- Electives (6 credit hours) to be decided individually between the student and the student's adviser

## Ph.D. in Sociology

### Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. A background of social science course work is preferred. Admission to the program is at the discretion of the department's Graduate

Committee and is based on academic record and letters of recommendation from two persons able to evaluate the applicant's potential for graduate study in sociology. Provisional admission may be considered on a case-by-case basis where minimum university requirements are not fully met (see the Graduate Study chapter, Provisional Standing section in this catalog). Although Graduate Record Examination (GRE) test scores are not required for admission, students are strongly encouraged to submit them if they wish to compete successfully for university Graduate Honor Awards.

**Note:** The award of an M.A. degree from this department does not automatically qualify a student for acceptance into the doctoral program.

Students admitted to a master's degree program of the department may petition the Graduate Committee for admission to the Ph.D. program prior to completion of M.A. degree requirements. This requires completion of the M.A. comprehensive examinations with a grade of fully satisfactory or distinction, a grade point average of higher than 3.00 on a 4.00 scale in courses completed as M.A. candidates and letters of recommendation from two faculty members.

The Ph.D. program is a sequence designed for students beginning their graduate program in the fall. Ph.D. candidates accepted for spring admission may have special problems related to course sequences that they should resolve with the department before they begin course work.

## Degree and Major Requirements

- A total of 72 hours of approved graduate work:  
Normally these 72 hours consist of 60 hours of course work and 12 hours of directed study on the dissertation. Students entering the Ph.D. program with M.A. degrees earned elsewhere must complete at least 42 of these hours in residence at The American University, including at least 30 credit hours of graduate course work and at least 6 credit hours of dissertation research.
- Tool of research: proficiency in a language approved by the department and in statistics for social research. Consult the department for details on how to demonstrate proficiency in both tool areas. A grade of B or better is required in statistics courses taken to satisfy the statistics tool requirement.
- Four comprehensive examinations: Sociological theory, methods of social research, and one each in two other fields of concentration. At least one of the latter two must be oral.  
Full-time students must take the comprehensive examinations in sociological theory and methods of social research in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other before beginning their third year of study. A maximum of three attempts on these examinations is permitted to doctoral students who enter the program with previous graduate work in sociological theory or methods of social research: one taken before enrollment in the required sequence (see Course Requirements below), one taken in the first examination period after completion of the required sequence, and one taken in the next

examination period. Otherwise, a maximum of two attempts is permitted; one taken in the first examination period after completion of the required course sequence and one taken in the next examination period.

The comprehensive examination requirement in theory and methods of social research is waived for students who have completed the M.A. comprehensive examination requirement with a grade of fully satisfactory or distinction no more than three years before admission to the Ph.D. program.

- Every candidate must submit a dissertation proposal for approval by the candidate's dissertation committee, consisting of at least three and no more than five members, and must also submit the completed dissertation to the committee for approval. At least two members of the committee must be full-time faculty members of the Department of Sociology. Before taking the oral examination, the candidate must have completed all other requirements for the doctoral degree.
- Dissertation and oral examination of the dissertation in which the candidate may be questioned over the general field of the research done.

## Course Requirements

- Three courses in sociological theory:  
65.610 History of Sociology Theory (3)  
65.611 Modern Sociological Theory (3)  
65.710 Seminar in Sociological Theory (3)
- Three courses in methods of social research:  
65.620 Social Research I (3)  
65.621 Social Research II (3)  
65.720 Seminar in Social Research (3)  
Full-time students must complete 65.610, 65.611, 65.620, and 65.621 during their first year in the degree program. Part-time students must complete the sequence in either 65.610/65.611 (theory) or 65.620/65.621 (methods) during their first year, and the other sequence during their second year.  
The basic sequence requirement in theory or methods may be waived for students who receive a grade of satisfactory on the theory or methods comprehensive examination taken in the August before the semester in which they are required to begin the sequence. (See section on comprehensive examinations above.)  
Fully satisfactory performance on the theory comprehensive examination is a prerequisite for 65.710 Seminar in Sociological Theory for which a grade of B or better is required. Fully satisfactory performance on the methods comprehensive examination is a prerequisite for 65.720 Seminar in Social Research for which a grade of B or better is required.
- Two courses in each of two fields of concentration:  
At least one of the doctoral candidate's two fields of concentration must be selected from the following: Macrosociology, Social Stratification, Gender and Family, and Applied Sociology. Subject to departmental approval, the candidate may offer as one field of concentration a special area not in the listing above.
- Electives to be decided individually between the student and student's adviser

## Ph.D. in Sociology: Justice

### Admission to the Program

Applicants must meet the minimum university requirements for admission to graduate study. A background of social science course work is preferred. Admission to the program in Sociology with a specialization in Justice is determined jointly by appointed representatives from the Department of Sociology and the Department of Justice, Law and Society in the School of Public Affairs.

To apply for admission to this program, students supply letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study, and submit Graduate Record Examination (General) scores.

The Justice faculty reviews all applicants for the Justice specialization and recommends admission to the Department of Sociology, which makes the final decision.

Provisional admission may be considered on a case-by-case basis where university requirements are not fully met (see the Graduate Study chapter, Provisional Standing section in this catalog).

The Ph.D. program is a sequence designed for students beginning their graduate program in the fall. Ph.D. candidates accepted for spring admission may have special problems related to course sequences that they should resolve with the department before they begin course work.

### Degree and Major Requirements

- A total of 72 hours of approved graduate work: Normally these 72 hours consist of 60 hours of course work and 12 hours of directed study on the dissertation. At least 12 hours and no more than 30 hours are taken in the Department of Justice, Law and Society in the School of Public Affairs. Students entering the Ph.D. program with M.A. degrees earned elsewhere must complete at least 42 of these hours in residence at The American University, including at least 30 credit hours of graduate course work and at least 6 credit hours of dissertation research.
- Tools of Research: Proficiency in a language approved by both the Department of Sociology and the Department of Justice, Law and Society, and in statistics for social research. Consult the Department of Sociology for details on how to demonstrate proficiency in both tool areas. A grade of B or better is required in statistics courses taken to satisfy the statistics tool requirement.
- Four comprehensive examinations: sociological theory; methods of social research; a field of concentration approved by the Department of Sociology, usually in one of the four areas of concentration (Macrosociology; Social Stratification; Gender and Family; Applied Sociology); and the field of Justice, Law and Society administered by the Department of Justice, Law and Society. At least one of the examinations in the fields of concentration must be oral; however, the Justice comprehensive examination must be written. Full-time students must take the comprehensive examinations in sociological theory and methods of social research in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other

before beginning their third year. A maximum of three attempts on these examinations is permitted to doctoral students who enter the program with previous graduate work in sociological theory or methods of social research; one taken before enrollment in the required sequence (see Course Requirements below), one taken in the first examination period after completion of the required sequence, and one taken in the next examination period.

The comprehensive examination requirement in theory and methods of social research is waived for students who have completed the M.A. comprehensive examination requirement with a grade of fully satisfactory or distinction no more than three years before admission to the Ph.D. program.

- Every candidate must submit a dissertation proposal for approval by the candidate's dissertation committee, consisting of at least four and no more than five members. The chair of the dissertation committee and one other member are appointed by the Department of Justice, Law and Society. Two members are appointed by the Department of Sociology. A candidate must submit the completed dissertation to the dissertation committee for approval. Before taking the oral examination, the candidate must have completed all other requirements for the doctoral degree.
- Dissertation and oral examination of the dissertation in which the candidate may be questioned over the general field of the research done.

### Course Requirements

- Three courses in sociological theory: 65.610 History of Sociological Theory (3) 65.611 Modern Sociological Theory (3) 65.710 Seminar in Sociological Theory (3)
- Two courses in methods of social research: 65.620 Social Research I (3) 65.621 Social Research II (3) Full-time students must complete 65.610, 65.611, 65.620, and 65.621 during their first year in the degree program. Part-time students must complete the sequence in either 65.610/65.611 (theory) or 65.620/65.621 (methods) during their first year, and the other sequence during their second year. The basic sequence requirement in theory or methods may be waived for students who receive a grade of fully satisfactory on the theory or methods comprehensive examination taken in the August before the semester in which they are required to begin the sequence. (See section on comprehensive examinations above.) Fully satisfactory performance on the theory comprehensive examination is a prerequisite for 65.710 Seminar in Sociological Theory which must be passed with a grade of B or better.
- Two courses in one field of concentration offered by the sociology department: Macrosociology; Social Stratification, Gender and Family, and Applied Sociology.
- 73.710 Seminar in Justice, Law and Society (3) and three additional courses from the following: 53.674 Constitutional Law and Politics (3) 73.608 The Constitution and Criminal Procedure (3)



- 73.614 Law and the Behavioral Sciences (3)
- 73.615 Law and Human Rights (3)
- 73.643 Advanced Seminar in Policing (3)
- 73.644 Law and Social Control (3)
- 73.663 Advanced Seminar in Courts (3)
- 73.687 Law, Deviance, and the Mental Health System (3)
- 73.690 Independent Study Project in Justice (3)

- Electives to be decided individually between the student and the student's adviser

## Statistics

**Chair** Nancy Flournoy

### Full-time Faculty

**Professor** D.S. Crosby, N. Flournoy, M.W. Gray, R.H. Holzager, R.W. Jernigan, B.P. Korin, S. Parker, H. Rosenblatt (Emeritus), J.H. Smith (Emeritus)

**Associate Professor** A.M. Barron, L. Crone, M. Greene, E.B. McCue (Emeritus), J. Nolan

**Assistant Professor** C.T. Machlin (Emerita), F. Wang

**Instructor** S. Byekwaso, E. Kondells, J. Mika, S. Mokatin

### Research Faculty

**Research Professor** N. Mantel

Statistics is concerned with the collection, organization, analysis, interpretation, and presentation of numerical data. The science of statistics is a broad and challenging field. Its breadth can be seen in the way its ideas and techniques have found application in almost every field of study. Statistics has contributed organizational and analytical techniques that provide new insights in fields that range from the physical and life sciences to business, law, history, literature, and the social sciences.

A student majoring in statistics has two tracks available. Those who intend to continue with graduate work in statistics or those with an interest in the theory of statistical methods should follow the sequence for mathematical statistics, which requires a strong background in mathematics. Students wishing an emphasis in the use of statistical techniques should follow the sequence for applied statistics. This track is especially appropriate as a secondary emphasis for students who have a strong interest in a field of application.

The Department of Mathematics and Statistics combines the resources and knowledge of these related disciplines. This enables the department to offer unusually varied and flexible programs. A student with an interest in the mathematical sciences may choose a program within the department and later change his or her emphasis without a great loss of time because the programs share a common core.

The university's Washington, D.C. location affords the student access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment opportunities for

students with a firm grounding in the mathematical sciences.

### Special Opportunities

The department employs a number of its undergraduates in its tutoring lab and in the computer labs. The department also offers a limited number of book scholarships to its undergraduates. Applications should be submitted by the end of July preceding the academic year for which aid is requested. Work-study awards are also available. For more information, consult the financial aid office.

## B.S. in Statistics

### Admission to the Program

Normal admission to the major requires a cumulative grade point average of 2.00 (on a 4.00 scale) and departmental approval.

### Tracks

Mathematical Statistics, Applied Statistics, or Actuarial Science

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- Mathematical Statistics: a total of 47 credit hours with grades of C or better
- Applied Statistics: a total of 54 or 55 credit hours with grades of C or better

### Course Requirements

#### Mathematical Statistics

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.501 Probability (3)
- 42.202 Basic Statistics /N (4)
- 42.502 Introduction to Mathematical Statistics (3)
- 42.515 Regression (3)
- 42.516 Design of Experiments (3)
- 40.280 Introduction to Computer Science I /N (4)
- Four additional courses at or above .281 of which two must have the prefix 42. (42.514 Statistical Methods cannot be used), as approved by an adviser

*Applied Statistics*

- 41.211 Applied Calculus I /N (4) and 41.212 Applied Calculus II /N (3) or
  - 41.221 Calculus I /N (4) and 41.222 Calculus II /N (4)
- 41.310 Linear Algebra (3)
- 41.501 Probability (3)
- 42.202 Basic Statistics /N (4)
- 42.300 Business and Economic Statistics /N (3) or
  - 42.302 Intermediate Statistics (3)
- 42.502 Introduction to Mathematical Statistics (3)
- 42.515 Regression (3)
- 42.516 Design of Experiments (3)
- 40.260 Introduction to Computing /N (4) or
  - 40.280 Introduction to Computer Science I /N (4)
- Two additional courses selected from the department as approved by a student's adviser
- At least five approved courses in a related field, such as anthropology, psychology, sociology, economics, biology, business administration, or computer science. The five courses may be selected from more than one teaching unit.

*Actuarial Science*

*Note: No new students will be admitted to this program for the 1994-1995 academic year.*

**University Honors Program**

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

**Minor in Statistics****Course Requirements**

- 42.202 Basic Statistics /N (4)
- 41.221 Calculus I /N (4) or
  - 41.211 Applied Calculus I /N (4)
- Four courses in statistics (42.xxx) at the 300 level or above (41.501 Probability (3) may also be used as one of the four)

Students may select only one of 42.300 Business and Economic Statistics, 42.302 Intermediate Statistics, or 42.514 Statistical Methods for credit toward the minor.

**Undergraduate Certificate in Applied Statistics****Admission to the Program**

Open to students with a high school diploma or Graduate Equivalency Diploma (GED)

**Course Requirements**

- 40.260 Introduction to Computing /N (4)
- 41.211 Applied Calculus I /N (4)
- 41.212 Applied Calculus II /N (3)
- 42.202 Basic Statistics /N (4)
- 42.300 Business and Economic Statistics /N (3) or
  - 42.514 Statistical Methods (3)
  - or
  - 42.302 Intermediate Statistics (3)

**FIVE-YEAR PROGRAMS****Admission to Programs**

The five-year programs enable qualified undergraduates (students with a grade point average of 3.20 on a 4.00 scale in major courses) to earn both a bachelor's and a master's degree within five years. There are several options available: the student may choose the same major at the undergraduate and graduate level; the student may enter the master's program in computer science with an undergraduate major in mathematics; or the student may enter the master's program in statistics with an undergraduate major in mathematics. All students should apply by the end of the junior year.

**Combined B.S./M.S. in Statistics or Mathematics and Statistics**

Students receive a B.S. in Statistics or Mathematics and earn an M.S. in Statistics.

**Additional Admission Requirements**

Applicants must have completed 41.501 Probability and 42.502 Introduction to Mathematical Statistics by the end of the junior year.

**Degree and Major Requirements**

- A total of 78 hours of course work with an undergraduate major in mathematics; 73 credit hours of course work with an undergraduate major in statistics
- An approved tool of research
- A written comprehensive examination
- Thesis option: 6 hours of 42.797 Master's Thesis Seminar in Statistics and an oral defense of the thesis.
- Nonthesis option: 3 credit hours in 42.690 Independent Study Project in Statistics, requiring an oral and written presentation of the research work. Three additional hours in approved graduate-level independent research, seminars, or research courses.

## Course Requirements

- All requirements for the B.S. in Mathematics or B.S. in Statistics, mathematical statistics track
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)  
(42.530 and 42.531 must be completed by the end of the senior year.)
- Eighteen additional credit hours of approved graduate courses including 42.600 Advanced Mathematical Statistics I (3)
- Six credit hours of course work to fulfill the thesis or nonthesis option

## M.S. in Statistical Computing

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants will be expected to have adequate background in the mathematical sciences. Specifically, program prerequisites are 40.281 Introduction to Computer Science II and 40.282 Assembly Language Programming (or equivalents) and three semesters of calculus. In addition, previous work in statistics, probability, and matrix algebra is recommended.

### Degree and Major Requirements

- Thirty-six credit hours of approved graduate work. Six hours may be waived for students who have taken 40.520 Algorithms and Data Structures and 40.521 Design and Organization of Programming Languages, or 42.530 Mathematical Statistics I and 42.531 Mathematical Statistics II, or their equivalents.
- Written comprehensive examination, 42.007 Statistical Computing
- Six credit hours to fulfill the research requirement

### Course Requirements

- 40.520 Algorithms and Data Structures (3)
- 40.521 Design and Organization of Programming Languages (3)
- 41.560 Numerical Analysis: Basic Problems (3)
- 42.524 Data Analysis (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- One of the following:  
42.515 Regression (3)  
42.520 Applied Multivariate Analysis (3)
- One of the following:  
42.584 Stochastic Processes (3)  
42.522 Time-Series Analysis (3)
- Two courses selected from the following:  
40.540 Computer Systems Organization and Programming (3)  
40.568 Artificial Intelligence (3)  
40.570 Data Management Systems (3)  
40.584 Computer Graphics (3)
- Research Requirement:

- 42.640 Statistical Computing (3)
- 42.690 Independent Study Project in Statistics (3-6)

## M.S. in Statistics

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants will be expected to have an adequate background in the mathematical sciences. Students entering the M.S. program without the appropriate background will be expected to take certain undergraduate courses as prerequisite work.

### Tracks

Mathematical Statistics and Applied Statistics

### Degree and Major Requirements

- At least 30 credit hours of approved graduate work
- Proficiency in a tool of research chosen from: French, German, Russian, an approved computer language, or an approved analytical skill such as numerical, complex, or real analysis
- Written comprehensive examination (administered in two parts). Majors in Mathematical Statistics take 42.001, Statistical Theory and Probability. Majors in Applied Statistics take 42.005, Statistical Theory and Applications.
- Thesis option: 6 hours of 42.797 Master's Thesis Seminar in Statistics and an oral defense of the thesis
- Nonthesis option: 3 credit hours in 42.690 Independent Study Project in Statistics or 42.700 Seminar in Statistics, requiring an oral and written presentation of the research work. Three hours in approved graduate-level independent research, seminars, or research courses.

### Course Requirements

#### Mathematical Statistics

- 41.574 Theory of Probability (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- 42.584 Introduction to Stochastic Processes (3)
- 42.600 Advanced Mathematical Statistics (3)
- 42.601 Topics in Advanced Probability and Statistics (3)
- Thesis option: Two additional courses in mathematics or statistical theory  
Nonthesis option: Three additional courses in mathematics or statistical theory
- A student may take up to 12 credit hours as an independent research project.
- Additional research hours of course work to fulfill thesis or nonthesis option

#### Applied Statistics

- 41.574 Theory of Probability (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- 42.584 Introduction to Stochastic Processes (3)

- 42.600 Advanced Mathematical Statistics I (3)
- Three additional courses in statistical methods and applications (including approved related courses given in other teaching units)
- A student may take up to 12 credit hours as an independent research project.
- Additional research hours of course work to fulfill the thesis or nonthesis option

## M.S. in Statistics for Policy Analysis

### Admission to Program

In addition to meeting the minimum university requirements for graduate study, applicants are expected to have completed a minimum of one year of calculus and one year of statistics

### Degree and Major Requirements

- At least 36 credit hours of approved graduate work
- Written comprehensive examination 42.006 Statistics for Policy Analysis
- Nonthesis option: 42.690 Independent Study Project in Statistics which requires an oral and written presentation of the research work, and 3 additional hours of an approved internship or an approved advanced-level seminar or research course.

### Course Requirements

- 42.514 Statistical Methods (3) (Prerequisite : 42.202 Basic Statistics or equivalent)  
Note: 42.514 or equivalent is a prerequisite for all other statistics courses in the program.
- 42.515 Regression (3)
- 42.510 Theory of Sampling I (3)  
or  
42.517 Special Topics in Statistical Methodology: Sampling (3)
- 42.524 Data Analysis (3)
- 42.525 Statistical Software (3)
- 42.690 Independent Study Project in Statistics (3)
- 42.691 Internship in Statistics (3) (An advanced-level seminar or research course may be substituted based on professional experience)

Additional 15 credit hours from the following:

- At least two additional statistics and probability courses (42.xxx) at the 500 level or above. Recommended courses are:  
42.502 Introduction to Mathematical Statistics (3)  
42.516 Design of Experiments (3)  
42.520 Applied Multivariate Analysis (3)  
42.521 Analysis of Frequency (3)  
42.522 Time Series Analysis (3)
- At least two policy analysis courses from the following, and approved by the student's adviser:  
53.682 Foundations of Policy Analysis (3)  
54.604 Public Program Evaluation (3)

- 54.607 Economics and Politics of Public Policy (3)
- 65.580 Social Policy Analysis (3)
- 65.680 Social Policy Research (3)

## Ph.D. in Statistics

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants who do not have an M.A. or M.S. in Statistics would ordinarily begin with 42.530 Mathematical Statistics I, 42.531 Mathematical Statistics II, 42.574 Theory of Probability and/or 42.584 Introduction to Stochastic Processes. Admission is based on academic record and two letters of recommendation.

### Degree and Major Requirements

- A total of 72 credit hours of approved graduate work including a minimum of 6 credit hours of 42.799 Doctoral Dissertation Seminar in Statistics. Thirty hours may be transferred into the program by students who have an M.A. in Statistics.
- Proficiency in two tools of research chosen from: French, German, Russian, an approved computer language, or an approved analytical skill such as numerical, complex, or real analysis. The analytical skill requirement may be satisfied by previous course work.
- A qualifying examination taken before completion of 24 credit hours of course work in the doctoral program
- Four comprehensive examinations, three written and one oral
- The fields for the written examinations are: 42.002 Advanced Statistical Theory (administered in two parts), and two chosen from the following: 42.028 Linear Estimation, 42.029 Multivariate Analysis, 42.020 Theory of Sampling, 42.070 Statistical Computing, or an approved outside field. The oral examination is a defense of the dissertation proposal.
- A dissertation directed by a full-time faculty member and an oral defense of the dissertation

### Course Requirements

- 41.674 Advanced Probability (3)
- 42.610 Statistical Inference: Estimation (3)
- 42.611 Statistical Inference: Hypothesis Testing (3)
- 42.798 Seminar in Statistics (1) (may be repeated for credit, topic must be different)
- 42.799 Doctoral Dissertation Seminar in Statistics (6-12)

## Graduate Certificate in Applied Statistics

### Admission to the Program

Open to students with a bachelor's degree from an accredited institution.

### Course Requirements

- 42.530 Mathematical Statistics I (3)

- 42.531 Mathematical Statistics II (3)
- Three of the following:
  - 42.510 Theory of Sampling I (3)
  - 42.515 Regression (3)
  - 42.516 Design of Experiments (3)
  - 42.517 Special Topics in Statistical Methodology (3)  
or
  - 42.519 Nonparametric Statistics (3)

## Women's Studies Program

**Director** Jo Radner, Department of Literature

The Women's Studies minor at The American University is an interdisciplinary program focused on women's experiences, issues facing women in the world today, and the significance of gender in shaping the experience of communities and individuals. The program is committed to a multicultural curriculum that sustains and integrates diverse perspectives. Women's studies courses emphasize participatory education in which student involvement, critical thinking, and personal insight are encouraged and made relevant in the learning process. Many faculty members with national reputations for their work in gender issues regularly teach these courses. Their students benefit directly from the expertise of women and men who are leaders in this field of scholarship.

In addition to the well-established Women's Studies minor for undergraduates, graduate students can combine the study of women's issues with the core courses in a traditional discipline to earn an M.A. or Ph.D. degree. Departments participating in the graduate program are Anthropology, Art History, Economics, Education, History, Literature, Psychology, and Sociology.

### Special Opportunities

Students who minor in Women's Studies participate in the Cooperative Education Program, or they complete an internship off campus in an organization or agency whose mission embraces some aspect of women's lives and experiences. Both graduate and undergraduate students have the opportunity for research on women's issues in the many government and nonprofit organizations located in the nation's capital.

Washington, D.C. is the location or headquarters of a diverse number of organizations such as the Institute for Women's Policy Research, Mid-Atlantic Center for Sex Equity, National Organization for Women, Women's Legal Defense Fund, Washington Women's Art Center, National

Women's Health Network, and many others. The Women's Studies Program, by itself and in conjunction with other departments, hosts major speakers and lecture series of interest to women and minorities. For example, in spring 1991, the program participated in a conference titled *Experiences of Gender: Color, Class, and Country*, sponsored by the Department of Sociology.

In combination with a variety of academic majors, a minor in Women's Studies may lead to a challenging career in an area affecting women's lives, including policy making process, law, social work, teaching, or research. Graduate students who combine the study of women's issues with their traditional disciplines are sought after by many different kinds of professional and scholarly organizations involved in advocacy, teaching, and research.

## Minor in Women's Studies

### Admission to the Program

Students who wish to participate in the Women's Studies Program should discuss their interest with the program director and complete the declaration of minor form.

### Course Requirements

- 78.250 The Social Reality of Women /A 4:2 (3)
  - One of the following:
    - 78.392 Cooperative Education Field Experience in Women's Studies (3-6)
    - 78.491 Internship in Women's Studies (3-6)
  - Twelve credit hours of course work, 9 of which must be at the 300 level or above, from a list of women's studies courses approved by the program
- Some representative course offerings include:
- 03.215 Sex, Gender, and Culture /S 3:2 (3)
  - 03.342 Women and Work (3)
  - 17.510 Women in Journalism (3)
  - 19.303 Sex Roles in Economic Life (3)
  - 21.389 Sexism in School and Society: National and International Perspectives /S (3)
  - 23.370 A Room of One's Own: Women and Literature (3)
  - 29.220 Women in Modern America /S 4:2 (3)
  - 49.423 Issues in Women's Health (3)
  - 57.320 Women and Mental Health (3)
  - 65.352 Women and Society (3)
  - 78.150 Women's Voices through Time /A 2:1 (3)

Consult the program director for each semester's course offerings in women's studies.



Journalism students prepare for their future careers on location at the Supreme Court.

# School of Communication

**Dean** Sanford J. Ungar

**Associate Dean for Academic Affairs** Glenn Harnden

**Assistant Dean for Administration** Patrick Martin

**Academic Counselor** Merry Mendelson

**Graduate Programs Coordinator** Capp Crofford

## **Full-Time Faculty**

**Professor** L.B. Anderson, E.L. Bliss, Jr. (Emeritus),  
G.P. Harnden, J.A. Hendrix, J.E. Orwant,  
R.A. Streltmatter, R.E. Sutton, S.J. Ungar,  
L.W. Wolfson, J.S. Yamauchi

**Associate Professor** D.D. Bonafede, J.C. Doolittle,  
J.S. Douglass, L.M. Furber, D.T. Moore,  
J.C. Seigle (Emeritus), A. Zelle

**Assistant Professor** P. Auferheide, B.J. Diggs-Brown,  
P. Ellis, R.S. Gould, S. Kendall, J. Lustig, J.A. Olmsted,  
S.A. Roschwalb, L. Searing, C. Simpson, J.C. Spear,  
R.A. Stack, W.S. Williams, R.S. Zaharna

**Instructor** K.A. Howze

## **Journalism Division**

The Journalism Division includes the undergraduate programs in Print and Broadcast Journalism, and the graduate program in Journalism and Public Affairs, which includes Print and Broadcast tracks in Public Policy Journalism, Economic Communication, or International Journalism. A part-time graduate weekend program is also offered.

## **Public Communication Division**

The Public Communication Division includes both undergraduate and graduate programs. The graduate program is also offered as a part-time weekend program.

## **Visual Media Division**

The Visual Media Division includes the undergraduate Visual Media program and the graduate Film and Video program. It also offers the Summer Film and Video Institute.

The goal of the School of Communication is to develop liberally educated, professionally trained communicators who are equipped intellectually and ethically to convey the issues of contemporary society.

The curriculum is carried out in the environment of Washington, D.C., the communications center of the world. The school draws heavily on the resources of the federal city for its adjunct faculty, for the material in its curriculum, and for involving students with Washington's communicators and communication facilities.

## **UNDERGRADUATE PROGRAMS**

A strong liberal arts background is emphasized by the school. To ensure that communication majors attain this background, a significant portion of undergraduate course work is taken outside the field of communication.

All students intending to major in communication complete two core courses during their freshman and sophomore years. During the freshman year 17.205 Understanding Mass Media is required and 17.200 Writing for Mass Communication is required during the sophomore year. Public Communication majors then enroll in 17.204 Public Relations, Visual Media majors in 17.105 Visual Literacy, and Journalism majors in 17.320 Reporting.

Students continue with one of the four professional programs (Print or Broadcast Journalism, Public Communication, or Visual Media) in their junior year and take a series of carefully chosen skills courses. They also complete communication and media studies courses which examine the history, current issues, and future of communication and the media. The ability to write correctly and clearly is stressed in all four professional programs.

## B.A. in Communication: Journalism

### Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.50 (on a 4.00 scale). Students should declare their major by the end of the sophomore year and no earlier than the end of the freshman year.

Students who are unable to achieve a cumulative grade point average of 2.50 and declare a major in communication are not allowed to take courses in the school after they have completed 75 hours of undergraduate credit.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Program Tracks

Broadcast Journalism or Print Journalism

### Major Requirements

- A total of 36 credit hours with grades of C or better within the School of Communication, including introductory courses, professional courses, media studies courses, internships, independent study, and independent reading courses.
- Related course requirements taken outside the School of Communication, with grades of C or better
- A minimum of 84 credit hours outside the field of communication, including 65 credit hours in the liberal arts and sciences, are required for the major.

Subject to the approval of an adviser, a maximum of 12 credit hours in communication transferred from another university may be substituted for required communication courses. Transfer students majoring in Broadcast Journalism or Print Journalism are required to graduate with a total of 84 credit hours outside the field of communication.

### Related Course Requirements

Students must complete the following:

- Three credit hours in American history (29.xxx)
- Three credit hours in economics (19.xxx)
- A minor or second major outside the School of Communication

### Course Requirements (36 credit hours)

#### Core (five courses)

- 17.200 Writing for Mass Communication (3)

- 17.205 Understanding Mass Media /S 4:2 (3)
- 17.320 Reporting (3)
- 17.401 Legal Aspects of Communication (3)
- One of the following:
  - 17.504 Journalism Ethics (3)
  - 17.509 Politics and the Media (3)
  - 17.510 Women in Journalism (3)
  - 17.535 Special Topics in News Media:
    - Great Books in U.S. Journalism (3)
    - History of Broadcast Journalism (3)
    - 17.540 American Newspapers (3)

### Broadcast Journalism Track (seven courses)

- 17.333 Fundamentals of TV and VTR (3)
- 17.385 Broadcast Journalism I (3)
- 17.428 Broadcast Journalism II (3)
- 17.432 Television Field Reporting (3)
- A Journalism-Communication and Media Studies (JMS) course (see the course listings in this publication) (3)
- Two of the following:
  - 17.433 Broadcast Delivery (3)
 An additional Journalism-Communication and Media Studies (JMS) course (see the course listings in this publication) (3)
  - 17.491 Senior Internship (3) or
  - 17.392 Cooperative Education Field Experience (3)

### Print Journalism Track (seven courses)

- 17.322 Editorial Policies and Methods (3)
- 17.425 Advanced Reporting (3)
- Two Journalism-Communication and Media Studies (JMS) courses (see the course listings in this publication)
- Two of the following:
  - 17.325 Feature Article Writing (3)
  - 17.430 Basic Photography (3)
  - 17.521 Opinion Writing (3)
 An additional Journalism-Communication and Media Studies (JMS) course (see the course listings in this publication) (3)
  - 17.491 Senior Internship (3) or
  - 17.392 Cooperative Education Field Experience (3)
- One of the following:
  - 17.325 Feature Article Writing (3) (if not taken to meet requirement above)
  - 17.502 Investigative Journalism (3)
  - 17.521 Opinion Writing (3) (if not taken to meet requirement above)
  - 17.545 Business and Economic Journalism (3)

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the school and, upon the school's recommendation, graduate with University Honors in the major. The school's Honors coordinator advises students in the University Honors Program regarding school op-



tions. See the section on the University Honors Program in this catalog for further details.

## B.A. in Communication: Public Communication

### Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.50 (on a 4.00 scale). Students should declare their major by the end of the sophomore year and no earlier than the end of the freshman year.

Students who are unable to achieve a cumulative grade point average of 2.50 and declare a major in communication are not allowed to take courses in the school after they have completed 75 hours of undergraduate credit.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 36 credit hours with grades of C or better within the School of Communication, including introductory courses, professional courses, media studies courses, internships, independent study, and independent reading courses.
- Related course requirements taken outside the School of Communication, with grades of C or better
- A minimum of 84 credit hours outside the field of communication, including 65 credit hours in the liberal arts and sciences, are required for the major.

Subject to the approval of an adviser, a maximum of 12 credit hours in communication transferred from another university may be substituted for required communication courses. Transfer students majoring in Broadcast Journalism or Print Journalism are required to graduate with a total of 84 credit hours outside the field of communication.

### Related Course Requirement

Students must complete the following:

- Three credit hours in American history (29.xxx)
- Three credit hours in economics (19.xxx)
- A minor or second major outside the School of Communication

### Course Requirements (36 credit hours)

- 17.200 Writing for Mass Communication (3)
- 17.204 Public Relations (3)

- 17.205 Understanding Mass Media /S 4:2 (3)
- 17.410 Interpersonal Communication (3)
- 17.437 Public Relations Media (3)
- 17.446 Public Relations Case Studies (3)
- 17.480 Public Communication Research (3)
- Three of the following:
  - 17.310 Public Speaking (3)
  - 17.325 Feature Article Writing (3)
  - 17.346 Audio Visual Communication (3)
  - 17.430 Basic Photography (3) (spring only)
  - 17.442 Media Training (3)
  - 17.470 Organizational Communication (3)
  - 17.472 Nonverbal Communication (3)
  - 17.475 Group Communication Management (3)
  - 17.521 Opinion Writing (3)
  - 17.532 Publication Layout and Design (3)
- A Communication and Media Studies course. (See Media Studies (MS) in the course listings in this publication.)
- 17.491 Senior Internship (3) or
- 17.392 Cooperative Education Field Experience (3)
- Two additional Communication and Media Studies (MS) courses (see above) with adviser approval.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the school and, upon the school's recommendation, graduate with University Honors in the major. The school's Honors coordinator advises students in the University Honors Program regarding school options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Communication: Visual Media

### Admission to the Program

Formal admission to the major requires a cumulative grade point average of 2.50 (on a 4.00 scale). Students should declare their major by the end of the sophomore year and no earlier than the end of the freshman year.

Students who are unable to achieve a cumulative grade point average of 2.50 and declare a major in communication are not allowed to take courses in the school after they have completed 75 hours of undergraduate credit.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.

- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 36–42 credit hours with grades of C or better within the School of Communication, including introductory courses, professional courses, media studies courses, internships, independent study, and independent reading courses.
- Related course requirements taken outside the School of Communication, with grades of C or better

Subject to the approval of an adviser, a maximum of 12 credit hours in communication transferred from another university may be substituted for required communication courses.

### Related Course Requirement

Students must complete the following:

- Three credit hours in American history (29.xxx)
- Three credit hours in economics (19.xxx)
- A minor or second major outside the School of Communication

### Course Requirements (36–42 credit hours)

- 17.105 Visual Literacy /A 1:1 (3)
  - 17.200 Writing for Mass Communication (3)
  - 17.205 Understanding Mass Media /S 4:2 (3)
  - 17.430 Basic Photography (3)
  - 17.431 Basic Visual Media Production (3)
  - 17.482 Writing for Visual Media (3)
  - Three visual media studies courses from the following:
    - 17.511 History of Documentary Film (3)
    - 17.512 Television Documentary (3)
    - 17.513 Producing Film and Video (3)
    - 17.514 Censorship and Media (3)
    - 17.515 Children's Television (3)
    - 17.516 Special Topics in Visual Media and Culture (3)
    - 17.517 Cross Cultural Cinema (3)
    - 17.527 History of Photography (3)
    - 17.558 History of Motion Pictures I (3)
    - 17.559 History of Motion Pictures II (3)
    - 17.599 New Communication Technology (3)
    - 23.375 Film and Literature (3)
    - 23.376 National Cinema (3)
    - 23.377 Popular Film Genres (3)
    - 23.378 Major Filmmakers (3)
    - 23.380 Independent Filmmakers (3)
- One Communication and Media Studies course may be substituted for one of the Visual Media studies courses. (See Media Studies (MS) in the course listings in this publication.)

One of the following sequences:

#### *Moving Image Sequence:*

- 17.434 Location Film and Video Production (3)
- 17.435 Introduction to Studio Television (3)

- Two of the following:
  - 17.456 Film Production and Direction (3)
  - 17.464 Directing for Camera (3)
  - 17.486 Video Production and Direction (3)
  - 17.487 Advanced Production and Direction (3)
  - 17.561 Advanced Writing for Film (3)
  - 17.562 Advanced Writing for Television (3)

One additional course may be selected from the above list, from the photography sequence courses, or may be an internship or cooperative education field experience.

#### *Photography Sequence:*

- Minimum of three of the following:
  - 17.523 Intermediate Photography:
    - Fine Arts Photography (3)
  - 17.523 Intermediate Photography:
    - Photojournalism (3)
  - 17.525 Advanced Photography (3)
  - 17.529 Large Format Photography and Studio Lighting (3)

Two additional courses may be selected from the above list, from the moving image sequence courses, or may be an internship or cooperative education field experience.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the school and, upon the school's recommendation, graduate with University Honors in the major. The school's Honors coordinator advises students in the University Honors Program regarding school options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Communication, Legal Institutions, Economics, and Government (CLEG)

An Interdisciplinary major in Communication, Legal Institutions, Economics, and Government is available. Consult the School of Public Affairs chapter of this publication.

## B.A. in Foreign Language and Communication Media

Students are admitted to either the School of Communication or to the Department of Language and Foreign Studies of the College of Arts and Sciences.

Program tracks are: French, German, Russian, or Spanish combined with Broadcast Journalism, Print Journalism, Public Communication, or Visual Media. Refer to the Interdisciplinary Degree Programs chapter in this catalog for information on major and course requirements.

## Washington Journalism Semester

This special one semester undergraduate program explores journalism as it exists and is practiced in Washington, D.C. The program studies the people, institutions, and issues of Washington journalism with guest speakers, field trips, and lectures, plus an internship and an elective course selected from regular offerings of the university. The program is open to students from colleges and universities across the country.

### Admission to the Program

Requirements for admission to the program are: (1) a minimum grade point average of 2.50 (on a 4.00 scale); (2) either a journalism major or a liberal-arts major with some evidence of interest in journalism; and (3) at least second-semester sophomore standing at the time of participation. Selection is competitive.

Note: This program is not open to American University communication majors.

### Requirements

- 17.450 Washington Journalism Semester Seminar I (4)
- 17.451 Washington Journalism Semester Seminar II (4)
- 17.452 Washington Journalism Semester Internship (4)
- One course from the regular university course offerings

## Minor in Communication

Designed for users and consumers of mass media, rather than for practitioners. Students wishing to minor in Communication should consult the academic counselor in the School of Communication.

### Requirements

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- Two of the following:
  - 17.204 Public Relations (3)
  - 17.310 Public Speaking (3)
  - 17.320 Reporting (3)
  - 17.322 Editorial Policies and Methods (3)
  - 17.325 Feature Article Writing (3)
  - 17.348 Audio-Visual Communication (3)
  - 17.430 Basic Photography (3)
  - 17.431 Basic Visual Media Production (3)
  - 17.435 Introduction to Studio Television (3)
  - 17.470 Organizational Communication (3)
  - 17.472 Nonverbal Communication (3)
  - 17.475 Group Communication Management (3)
  - 17.521 Opinion Writing (3)
  - 17.532 Publication Layout and Design (3)
- Two of the following:
  - 17.401 Legal Aspects of Communication (3)
  - 17.508 The Media and Government (3)

- 17.509 Politics and the Media (3)
- 17.511 History of Documentary Film (3)
- 17.512 Television Documentary (3)
- 17.513 Producing Film and Video (3)
- 17.514 Censorship and Media (3)
- 17.515 Children's Television (3)
- 17.517 Cross Cultural Cinema (3)
- 17.527 History of Photography (3)
- 17.530 Broadcast Operations and Management (3)
- 17.538 Contemporary Media Issues (3)
- 17.540 American Newspapers (3)
- 17.545 Business and Economic Journalism (3)
- 17.558 History of Motion Pictures I (3)
- 17.559 History of Motion Pictures II (3)
- 17.596 An appropriate Selected Topics (.596) course may be used to fulfill this requirement with permission of the student's adviser (3)
- 17.599 New Communication Technology (3)

## GRADUATE PROGRAMS

### M.A. in Communication: Journalism and Public Affairs

#### Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Previous professional or campus experience in communication is useful but is not required. However, all applicants are required to show evidence of professional commitment and career direction related to the track they choose and the print or broadcast sequence within that track.

Admission is for full-time students and for the fall semester only. The student is expected to complete this program (30 credit hours) within a ten-month period. (See also the Weekend Graduate Program in Communication: Journalism and Public Affairs, below.)

Address initial inquiries to the Graduate Journalism Admissions Committee, School of Communication.

The school will send a brochure that contains a more detailed description of the purpose and content of the graduate program, and an application form which includes a request for a 1,000-word essay on the applicant's reasons for wanting to pursue graduate study in one of its tracks. The form and essay should be sent directly to the Graduate Journalism Admissions Committee, School of Communication, The American University, 4400 Massachusetts Ave. NW, Washington, D.C. 20016. Applicants should send samples of published professional or college newswriting or scripts or tapes along with the essay, if available.

Potential applicants will also be sent a packet under separate cover from the university's admissions office. The packet contains additional information relating to graduate study generally at the American University, a second application form, and two reference forms.

The program has a limited number of graduate fellowships and assistantships available each year. Inquiries about financial aid other than fellowships and assistantships should be addressed to the Office of Financial Aid.

## Program Tracks

Students choose one of three professional specializations: Public Policy Journalism, International Journalism, or Economic Communication. Each may be taken in either a print or broadcast journalism track.

## Degree and Major Requirements

- A total of 30 credit hours of approved graduate work as specified. Students may seek permission of the Director of the Journalism Division to substitute for Journalism courses 3 to 6 hours of graduate study in an area related to public affairs (500 level or above).
- Broadcast or print track
- A grade point average of 3.00 maintained during all work toward the degree
- Continuous full-time registration
- One comprehensive examination, 17.001 General Communication and Journalism

## Course Requirements

### Public Policy Journalism

#### Core Courses (9 credit hours)

- 17.601 Legal Aspects of Communication (3)
- 17.710 Seminar in Public Affairs (3) (with a grade of B or better)
- 17.724 Reporting of Public Affairs (3)

#### Elective Courses (12 credit hours)

- Twelve credit hours of approved electives
- Note: Three to 6 credit hours in an area of graduate study related to public affairs may be substituted for one or two journalism electives with permission of the program director. Possible areas might include political science, public administration, history, economics, the range of social science, and international relations.

Courses from one of the following tracks (9 credit hours):

#### Broadcast Track

- 17.632 Television Field Reporting (3)
- 17.721 Broadcast News I (3)
- 17.722 Broadcast News II (3) (with a grade of B or better)

#### Print Track

- 17.621 Advanced Copy Editing (3)
- 17.636 Washington Reporting (3)
- 17.720 Seminar in Journalism (3) (with a grade of B or better)

### International Journalism

#### Core Courses (9 credit hours)

- 17.601 Legal Aspects of Communication (3)
- 17.710 Seminar in Public Affairs (3) (with international emphasis and a grade of B or better)
- 17.724 Reporting of Public Affairs (3) (with international emphasis)

#### Elective Courses (6 credit hours)

- One international relations course outside the School of Communication (3)
- One School of Communication elective (3)

Courses from one of the following tracks (15 credit hours):

#### Broadcast Track

- 17.546 Foreign Policy and the Press (3)
- 17.632 Television Field Reporting (3)
- 17.715 Seminar in International Journalism (3) (with a grade of B or better)
- 17.721 Broadcast News I (3)
- 17.722 Broadcast News II (3) (with international emphasis)

#### Print Track

- 17.546 Foreign Policy and the Press (3)
- 17.621 Advanced Copy Editing (3)
- 17.636 Washington Reporting (3) (with international emphasis)
- 17.715 Seminar in International Journalism (3) (with a grade of B or better)

### Economic Communication

#### Core Courses (9 credit hours)

- 17.601 Legal Aspects of Communication (3)
- 17.710 Seminar in Public Affairs (3) (with emphasis on economic and business coverage and with a grade of B or better)
- 17.724 Reporting of Public Affairs (3) (with emphasis on economic and business coverage)

#### Business/Economics Courses (9 credit hours)

- Students must select 9 credit hours from the following:
  - 10.604 Business and Society (3)
  - 19.500 Price Theory (3)
  - 19.501 Income Theory (3)
  - 19.507 American Economic Development (3)
  - 19.522 Econometrics (3)
  - 19.546 Industrial Organization (3)
  - 19.571 Labor Economics: Theory (3)
  - 19.579 Energy Economics, Resources, and the Environment (3)
  - 19.603 Introduction to Economic Theory (3)

#### Broadcast or Print Track

- 17.545 Business and Economic Journalism (3)
- One economics or business elective (3)
- Two School of Communication electives (6)

## Requirement Notes

- Students with insufficient news writing and reporting experience or with insufficient familiarity with American government and journalism must pass 17.624 Principles and Practice of Journalism with a minimum grade of B before entering the program. This intensive course, usually offered in August,

does not count for credit in the 30 credit hours for the degree.

- Students who have earned a B or better in a news-media law course within five years of enrollment may petition to be exempted from 17.601 Legal Aspects of Communication. International students are normally exempted from this course.
- Students with extensive professional editing experience may petition to be exempted from 17.621 Advanced Copy Editing.

### Special Opportunities

The program draws heavily on the resources of Washington, D.C. for both field work and classroom study. In addition, the many professional news organizations in the Washington area provide excellent opportunities for internships and cooperative education field experience. Special seminars and presentations, including the school's American Forum, enable students to meet major public figures and discuss issues of national and international concern. A limited number of graduate fellowships and assistantships are awarded on the basis of merit as well as school and program needs.

## Weekend Graduate Program in Communication: Journalism and Public Affairs

The part-time M.A. program in Journalism and Public Affairs is for professionals whose schedules make Saturday classes a preferable alternative to full-time study. Students in this program follow a planned curriculum in Public Policy Journalism, moving through the program as members of an intact group to complete ten courses in the print or radio and television journalism tracks.

Admission requirements are the same as for the full-time program, and for the fall semester only. The student is expected to complete this program (30 credit hours) within a twenty-month period.

For more information, call the University Programs Advising Center at (202) 885-2500.

## M.A. in Communication: Public Communication

### Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Previous academic or professional work in public communication is not required, but all applicants must demonstrate a serious commitment to a career in this field. The ability to speak and write English well is essential.

Admission is open to both full-time and part-time students and is for the fall semester only. Part-time students are expected to take a minimum of two courses each semester and complete their program in two years. Full-time students are generally expected to complete the program in ten months.

Inquiries should be addressed to the Graduate Public Communication Program, School of Communication.

The school will send a brochure that contains a more detailed description of the purpose and content of the graduate program, and an application form which includes a request for a 1,000-word essay on the applicant's reasons for wanting to pursue graduate study in the program. The form and essay should be sent directly to the Graduate Public Communication Admissions Committee, School of Communication, The American University, 4400 Massachusetts Ave. NW, Washington D.C. 20016.

Potential applicants will also be sent a packet under separate cover from the university's admissions office. The packet contains additional information relating to graduate study generally at the American University, a second application form, and two reference forms.

Interviews are not required, but may be recommended by the school.

### Degree and Major Requirements

- A total of 30 credit hours of approved graduate work in public communication and related fields. The required work in public communication comprises 21 credit hours.
- A graduate project is required of all students. The project work must be focused in a particular communication area, such as: Arts Communication; Corporate Public Relations; Government and Political Communication; International Public Relations; or Public Interest Communication. The project should be selected to provide an important credential for future employment as well as a focus for learning. It should reflect the student's career direction within the broad field of public communication. Students must receive a grade of B or better on the project. This project, which fulfills the university research requirement, is in lieu of a thesis.
- One comprehensive examination, 17.003 Public Communication

### Course Requirements (21 credit hours)

- 17.640 Public Communication Principles (3)
- 17.642 Public Communication Management (3)
- 17.644 Public Communication Writing (3)
- 17.646 Public Communication Production (3)
- 17.735 Communication Theory (3) (with a grade of B or better)
- 17.738 Research Methods in Communication (3) (with a grade of B or better)
- 17.744 Public Communication Seminar (3) (with a grade of B or better)

### Elective Courses (9 credit hours)

- Students may take an internship as one of the elective courses. Other elective courses may be taken in communication or in other fields such as sociology, business, performing arts, education, government, justice, international service, psychology, anthropology, art history, literature, economics, or statistics.

*Note:* Students interested in corporate public relations should note that there are limited options in business administration electives. Please consult your adviser.

### Special Opportunities

The program draws heavily on the resources of Washington, D.C. for both field work and classroom study. In addition, the many public interest organizations, trade associations, government agencies, and public relations firms in the Washington area provide excellent opportunities for internships and cooperative education field experience. Special seminars and presentations, including the school's American Forum, enable students to meet major public figures and discuss issues of national and international concern. A limited number of graduate fellowships and assistantships are awarded on the basis of merit as well as school and program needs.

## Weekend Graduate Program in Communication: Public Communication

The School of Communication offers a part-time weekend M.A. program in Public Communication. With its emphasis on public relations, this program is for experienced professionals who find their job responsibilities expanding to include new technologies, as well as the coordination and dissemination of persuasive and informational materials. For more information, call the University Programs Advising Center at (202) 885-2500.

## M.A. in Film and Video

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record General Examination (Verbal, Quantitative, and Analytical). Previous exposure to film study, film and video production, or script writing is not required, although all applicants are required to show evidence of professional commitment and career direction related to their program of study. Students without experience in film or video production are required to take 17.631 Basic Visual Media Production prior to or at the beginning of the regular program. This course does not count toward the 33 credit hours required for the degree.

Admission is not limited to full-time students, however students must be available to take the bulk of their course work during the day. Students will normally be expected to complete the program (33 credit hours) within a twenty-four month period.

Inquiries should be addressed to the Graduate Film and Video Program, School of Communication.

The school will send a brochure that contains a more detailed description of the purpose and content of the graduate program, and an application form which includes a request for a 1,000-word essay on the applicant's reasons for wanting to pursue graduate study in the program. The form and essay should be sent directly to the Graduate Film and Video Admissions Committee, School of Communication, The American University, 4400 Massachusetts Ave. NW, Washington, D.C. 20016.

Potential applicants will also be sent a packet under separate cover from the university's admissions office. The packet contains additional information relating to graduate study generally at the American University, a second application form, and two reference forms.

### Degree and Major Requirements

- A total of 33 credit hours of approved graduate work. Courses are selected from the following areas, with emphasis determined by the student's interest: film production; video production; film theory, history, and criticism; and script writing. While a student may emphasize one of these areas in the design of an individual program, the program must include courses from all four areas. A student's program may also include courses in related areas such as performing arts and photography.
- One comprehensive examination, 17.004 Film and Video
- Six credit hours in thesis research (thesis option) or, in the case of students specializing in the areas of script writing or production, 6 hours involving an original creative work (nonthesis option). A grade of B or better is required in those courses taken for the thesis or nonthesis option.

### Special Opportunities

The program draws heavily on the resources of Washington, D.C. for both field work and classroom study. In addition, the many media production organizations in the Washington area provide excellent opportunities for internships and cooperative education field experience. Special seminars and presentations, including the school's American Forum and the Media Center Premiere Presentations, enable students to meet major producers and media artists to screen and discuss their work. A limited number of graduate fellowships and assistantships are awarded on the basis of merit as well as school and program needs.

# Kogod College of Business Administration

**Dean** Francis Douglas Tuggle

**Associate Dean for Academic Affairs**  
Elmore R. Alexander

**Associate Dean for Student Affairs**  
Richard L. Apperson

**Assistant Dean for Administration** Firouz Bahrampour

**Director of the M.B.A. Program** August Schomburg

**Director of Graduate Admissions** Judith Sugarman

**Academic Counselors (Undergraduate)** Arthur Harris,  
Uma Saint

**Academic Counselor (Graduate)** Amy Alexander

## **Full-Time Faculty**

**University Professor** H.K. Baker, H.E. Striner  
(Emeritus)

**Professor** E.R. Alexander, C.I. Bartfeld (Emeritus),  
D.R. Brenner, P. Chinloy, T.V. DiBacco, R.B. Edelman,  
R. Estes, G.T. Ford, H. Glazer, J.E. Hampton (Emeritus),  
S.R. Holmberg, L.L. Karadibil (Emerita), D.M. Khambata,  
D.C. Martin, M.B. Mazis, J. Owens (Emeritus),  
W.H. Peters (Emeritus), M.P. Sampson, M. Seldin  
(Emeritus), J.H. Sood, F.D. Tuggle

**Associate Professor** N.A. Bagranoff, B.J. Bird,  
G.F. Bulmash, J.R. Butts, W.H. DeLone, R.H. Gorman,  
M. Hastak, S.H. Ivson, Jr. (Emeritus), D.C. Jacobs,  
P.J. Jacoby, J. Kokus, Jr., P.C. Kumar, R.L. Losey,  
M.A. Mass, T. Mroczkowski, T.J. O'Connor, A.C. Perry,  
H.M. Schillt, V. Selman, P.S. Shen, R.M. Springer, Jr.  
(Emeritus), J.L. Swasy, R.J. Volkema, E.A. Wasil,  
D.T. Williamson

**Assistant Professor** A. Adhikari, J.M. Bailey,  
J.D. Benjamin, E. Carmel, F.L. DuBois, K.A. Getz,  
R.W. Harris, R.G. Linowes, A.P. Marks, A. Mitra,  
R.M. Osborne, L.A. Riddick, A.C. Riley, J.B. Smelser,  
M. Tichich

## **Mission and Objectives**

As a professional school of business administration, the Kogod College provides an educational experience of the highest quality for its students; conducts scholarship of significance for both academic and professional audiences; and provides service to academic, professional, and business communities. In all these activities the Kogod College, taking advantage of its location in a world capital, emphasizes the interrelationships among business organizations, international and domestic institutions, and governments.

Through its pedagogy and research, the Kogod College:

- Prepares individuals to identify, analyze, and understand the interrelationships among business organizations, international and domestic institutions, and governments;
- Develops individuals who can lead organizations toward economic success and social responsibility in the global marketplace of the twenty-first century;
- Prepares individuals to integrate information resources and technologies to enable them to anticipate and manage change;
- Advances knowledge of issues and practices affecting business organizations, international and domestic institutions, and governments;
- Enhances its reputation for high quality scholarship germane to academic, professional, business, and government audiences; and
- Emphasizes, as a pervasive element of all programs and activities, ethical, professional, and socially responsible business practices.

## **Accreditation**

Both the business and accounting programs of the Kogod College of Business Administration are accredited by the American Assembly of Collegiate Schools of Business (AACSB).

### Departments and Special Centers

The college is made up of five departments: Accounting (including a Taxation program), Finance and Real Estate (including the Real Estate Center), Management, International Business, and Marketing. The International Business Department acts as a matrix department, providing opportunities for professors from other teaching units and other experts in the field to participate in the programs of the college.

As part of the Marketing Center of Excellence, The Center for Marketing Policy Research sponsors research and disseminates information on the effects of government policy on the marketing of goods and services.

Kogod College's Department of Finance has been designated a Center of Excellence. In addition to its major curriculum, the center bridges academic theory and business practice through several programs, including a Distinguished Speakers Seminar Series, conferences and symposia on issues of current financial interest, and a Center of Financial Research. Also, the Finance Center of Excellence provides students and faculty with immediate computer access to a world of financial information through comprehensive databases.

The Real Estate Center is dedicated to improving real estate education, research, and public service by fostering a closer working relationship between real estate professionals, their organizations and associations, the students and alumni of the college and the university community. By maintaining close contact with state licensing commissions, realtor organizations and boards, and professional associations, the Real Estate Center provides Kogod College students with access to the business real estate environment of the Washington, D.C. area.

In cooperation with the American Institute of Real Estate Appraisal (AIREA) and the Institute of Real Estate Management (IREM), the Center also offers a number of noncredit courses in appraisal and property management. These courses help prepare students for professional certification in appraisal (MAI and RM) and property management (CPM).

The following are the noncredit professional certification courses:

#### *Real Estate Appraisal Courses:*

- Appraisal Principles
- Appraisal Procedures
- Residential Case Study
- Basic Income Capitalization
- General Applications
- Standards of Professional Practice, Part A and Part B
- Advanced Residential Form and Narrative Report Writing
- Advanced Income Capitalization
- Highest and Best Use and Market Analysis
- Advanced Sales Comparison and Cost Approaches
- Report Writing and Valuation Analysis
- Advanced Applications

#### *Real Estate Property Management Courses:*

- Marketing and Management of Residential Property

- Managing Real Estate as an Investment
- Problem-Solving and Decision-Making for Property Managers

Most of these eight-week courses are offered consecutively in the fall, spring, and summer semesters, but are not open for credit registration. They have special tuition rates and institutes fees. For counseling and course descriptions, please consult The Real Estate Center, 206 Hurst Building, (202) 885-1962.

## UNDERGRADUATE PROGRAMS

### Bachelor of Science in Business Administration (B.S.B.A.)

The undergraduate program is a liberal arts based curriculum that also provides in the business core a broad knowledge of business functions followed by the opportunity to concentrate in one of six major fields of study. The program, leading to a Bachelor of Science in Business Administration, has the following objectives:

1. To develop in each student the ability to write and speak effectively, an appreciation of the arts and humanities, an awareness of social and political problems as well as the history and international and intercultural traditions that shape our world, a background in the natural sciences, and an understanding of mathematics and statistics and their application to business and economic problems.
2. To develop an understanding of the American and international economic systems and the important relationship between business and government.
3. To provide an understanding of the organizational dynamics of the business enterprise and interpersonal skills necessary for effective management.
4. To provide a background in the concepts, processes, and institutions of the production and marketing of goods and services and the financing of business organizations.
5. To provide a foundation in the concepts and application of accounting, quantitative methods, and management-information systems.
6. To stimulate the student's intellectual curiosity, to develop the ability to reason logically, and to encourage the consideration of ethical principles.

### Admission to the Program

Freshman applicants should have demonstrated above average performance in their college preparatory courses in secondary school. Scores on the CEEB Scholastic Aptitude Test should indicate that the applicant has the potential for success in a rigorous university degree program. Due to the quantitative emphasis of the business administration curriculum, it is strongly recommended that applicants take the Mathematics Achievement Test for placement purposes.

In addition to the requirements for transfer admission described in the Undergraduate Study chapter of this catalog, transfer applicants to Kogod College from other collegiate institutions should have maintained a minimum



grade point average of 2.75 (on a 4.00 scale). This standard also applies to students transferring to Kogod College from the nondegree program of the American University.

### Declaration of Major

Students must be approved by the appropriate department of the college for admission into a major. It is recommended that a major be declared no later than the second semester of the junior year. The minimum standards of performance that must be achieved prior to departmental approval are:

- A cumulative grade point average of 2.00 (on a 4.00 scale)
- A cumulative grade point average of 2.00 in the following prerequisites to the Business Core: 41.211, 19.100, 19.200, 40.260, and 42.202
- A minimum grade of C in each Business Core course taken by the time the student declares a major

In addition, approval of a declaration of a major in Accounting requires a minimum grade point average of 2.50 for the combination of courses 14.240/241 Principles of Accounting I and II.

Students from other degree granting units of the American University must satisfy the standards listed above before being accepted on transfer into Kogod College and before a declaration of major is approved.

### Majors

Accounting, Finance, International Business, Management, Marketing

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

Please refer to the General Education Program chapter in this catalog. Kogod College students should fulfill General Education requirements before beginning the junior year of study. A total of 6 credits, consisting of one foundation course and one second-level course must be completed in each of the following curricular areas: The Creative Arts, Traditions that Shape the Western World, International and Intercultural Experience, Social Institutions and Behavior, and The Natural Sciences.

*Note:* The Social Institutions and Behavior curricular area may be fulfilled by completing 19.100 Macroeconomics and 19.200 Microeconomics.

**Accounting majors** must take at least one course in each of the following:

- Anthropology, psychology, or sociology
- Government, public administration, or justice, law and society

- Biology, chemistry, or physics

Accounting students may fulfill the above area requirements by courses in the university General Education Program or by elective courses.

### Major Requirements

- A total of 120 credit hours
- Nonbusiness courses: 54 credit hours
- Business courses: A total of at least 51 credit hours; 33 credit hours in business core subjects and 18–24 credit hours in a business major as follows:  
Accounting: 21 credit hours  
Finance: 18 credit hours  
International Business: 24 credit hours  
Management Track I: 18 credit hours  
Management Track II: 21 credit hours  
Marketing: 18 credit hours
- Free electives: 9–15 credit hours, depending upon major field

### Course Requirements

Students are responsible for fulfilling university and college degree requirements following a prescribed sequence. The Kogod College Office of Undergraduate Programs must be consulted for counseling and advice.

### University Requirements

- 23.100 College Writing (3)  
or  
23.102 College Writing (3)
- 23.101 College Writing Seminar (3)  
or  
23.103 College Writing Seminar (3)
- 41.211 Applied Calculus I /N (4)

Students with a stronger background in mathematics may take 41.221 Calculus I. Students needing to strengthen their quantitative skills should begin with 41.150 Finite Mathematics.

### Non-business Prerequisites and Electives

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 40.260 Introduction to Computing /N (4)
- 42.202 Basic Statistics /N (4)
- Six credits of nonbusiness electives

### Business Core Courses (eleven required courses)

- 10.352 Introduction to Management Information Systems (3)
- 10.353 Principles of Organizational Theory, Behavior, and Management (3)
- 10.355 Production/Operations Management /N (3)
- 10.452 Business Responsibility in American Society /A,S (3)
- 10.458 Business Policy and Strategy (3)
- 11.300 Principles of Marketing (3)

- 12.300 Fundamentals of International Business (3)
  - 13.365 Corporate Finance (3)
  - 14.201 Business Law (3)
  - 14.240 Principles of Accounting I (3)
  - 14.241 Principles of Accounting II (3)
- The above courses must be completed with a grade of C or better in each course.

### Major Courses

#### Accounting (seven required courses)

The objective of the undergraduate accounting program is to provide a basic conceptual understanding of accounting and business as a foundation for accounting career development and advanced professional education.

- 14.340 Intermediate Accounting I (3)
- 14.341 Intermediate Accounting II (3)
- 14.345 Cost Accounting (3)
- 14.443 Taxation I (3)
- 14.449 Auditing (3)
- 14.450 Introduction to Accounting Information Systems (3)
- 14.480 Accounting Theory and Problems (3)

The following additional courses are recommended for students preparing for the CPA examination:

- 14.202 Advanced Business Law (3)
- 14.444 Taxation II (3)
- 14.547 Advanced Financial Accounting (3)

#### Finance (six required courses)

- 13.464 Financial Markets and Institutions (3)
- 13.468 Financial Decision Making (3)
- 13.469 Investment Analysis (3)
- 13.474 Real Estate Finance and Economics (3)
- Two from the following:
  - 12.302 International Finance (3)
  - 13.571 Financial Futures and Options (3)
  - 14.340 Intermediate Accounting I (3)
  - 14.341 Intermediate Accounting II (3)
  - 19.300 Price Theory (3)
  - 19.301 Income Theory (3)
  - 19.306 Money and Banking (3)
  - 42.300 Business and Economic Statistics (3)

#### International Business (eight required courses)

- Four courses in International business:
  - 12.301 International Marketing (3)
  - 12.302 International Finance (3)
  - and
  - Two courses selected from the following:
    - 12.401 Cultural Environment of International Business (3)
    - 12.404 Multinational Accounting Issues (3)
    - 12.408 Export-Import Management (3)
    - 12.507 International Human Resource Management (3)
    - 19.311 International Economics /S (3)
- Four courses in one of the following supporting fields:

#### Supporting Field of Accounting

- 14.340 Intermediate Accounting I (3)
- 14.341 Intermediate Accounting II (3)
- 14.345 Cost Accounting (3)
- and
- One other accounting course selected with the approval of the academic adviser

#### Supporting Field of Finance

- 13.464 Financial Markets and Institutions (3)
- 13.468 Financial Decision Making (3)
- 13.469 Investment Analysis (3)
- 13.474 Real Estate Finance and Economics (3)

#### Supporting Field of Management

- 10.381 Managing Human Resources (3)
- 10.386 Entrepreneurship (3)
- 10.387 Management and Leadership Development (3)
- 10.454 Managing Information for Business Decision Making (3)

#### Supporting Field of Marketing

- 11.301 Consumer Behavior (3)
- 11.401 Marketing Research (3)
- 11.402 Marketing Problems (3)
- and
- One other marketing course selected with the approval of the academic adviser
- Six credit hours of a foreign language (in place of two elective courses), or competency examination

**Note:** A student wishing to pursue a double major in International Business and another business field must complete six International Business courses and the required courses in the second field.

### Management

This concentration consists of two tracks; Enterprise Management and Human Resource Management

#### Track I: Enterprise Management (six required courses)

- 10.381 Managing Human Resources (3)
- 10.386 Entrepreneurship (3)
- 10.387 Management and Leadership Development (3)
- 10.454 Managing Information for Business Decision Making (3)
- Two elective courses from all other department course offerings

#### Track II: Human Resource Management (seven required courses)

- 10.381 Managing Human Resources (3)
- 10.386 Entrepreneurship (3)
- 10.387 Management and Leadership Development (3)
- 10.454 Managing Information for Business Decision Making (3)
- Three courses from the following:
  - 10.382 Employee Involvement and Labor Policy (3)
  - 10.384 Managing Performance (3)
  - 10.481 Managing Compensation Systems (3)

- 10.482 Managing Employee Benefits Programs (3)
- 10.585 Managing Diversity: Recruiting and Selecting the Workforce (3)

#### **Marketing (six required courses)**

- 11.301 Consumer Behavior (3)
- 11.401 Marketing Research (3)
- 11.402 Marketing Problems (3)
- Three courses from the following:
  - 11.411 Promotion Management (3)
  - 11.412 Promotion Campaigns (3)
  - 11.421 Sales Management (3)
  - 11.436 Retailing Management (3) or other courses approved by the department
- 12.301 International Marketing (3)

#### **Real Estate and Urban Development**

*Note: No new students will be admitted to this program for the 1994-1995 academic year.*

#### **Student Status**

The Kogod College of Business Administration has two undergraduate classifications: lower-division (corresponding to the freshman and sophomore years), and upper-division (corresponding to the junior and senior years). In the lower-division, students complete university requirements in college writing and mathematics, the university General Education program, nonbusiness prerequisites to the upper-division courses (economics, statistics, and computer science), and required courses 14.240/241 Principles of Accounting and 14.201 Business Law. (A student must earn a minimum of 24 credits before registering for upper-division courses in accounting and business law.)

The upper-division is devoted primarily to the completion of the professional courses in business. To qualify for admission to the upper-division, students must successfully complete a minimum of 54 credits of course work, including all of the lower-division degree requirements in college writing, mathematics, economics, statistics, computer science, business law, and accounting. No upper-level professional courses may be taken before attainment of upper-division status. Exceptions may be approved by the associate dean for undergraduate programs.

#### **Graduation Requirements**

Students must complete 120 credit hours with a cumulative grade point average of 2.00 or higher. A grade of C or higher must be achieved in each of the Kogod College major courses. Also, a grade of C or better must be achieved in each of the eleven business core courses (courses with the prefix 10.xxx, 11.xxx, 12.xxx, 13.xxx, 14.xxx), including capstone course 10.458 and any business prerequisite core course or courses relevant to the specific major field. Pass/fail grades are not permitted in the major or in the business core courses.

#### **Cooperative Education Program**

Qualified students majoring in business are encouraged to participate in the Cooperative Education Program which provides field experience in jobs related to their academic programs and career goals. The program enables students to make career decisions and prepare for entry

into the professional job market while earning degree credit in part-time placements. Positions may be with business, local, state, or federal governments or community, social service, or not-for-profit organizations.

Undergraduate students must have upper division standing plus 9 credit hours in business, including any relevant core courses specified by the Kogod College department. The credit earned in a co-op course can be used only for a free elective course, not to replace a major or core course.

#### **University Honors Program**

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the college and, upon college recommendation, graduate with University Honors in the major. The college's Honors coordinator advises students in the University Honors Program regarding college options. See the section on the University Honors Program in this catalog for further details.

### **Washington Semester in International Business and Trade**

This special program offered in the fall and spring semesters draws on the unique environment of Washington, D.C., focusing on the interplay between national government institutions and the business sector. Students study the impact of government policies and actions on international business and trade through seminars with decision makers and business leaders, internships with organizations in Washington, and research. Students earn undergraduate credits which may be applied toward a bachelor's degree.

#### **Admission to the Program**

The program is open to non-business students at The American University and to students of affiliated institutions from across the country. Requirements for admission to the program are: (1) nomination by a faculty representative of the Washington Semester Program; (2) a minimum grade point average of 2.50 (on a 4.00 scale); and (3) at least second-semester sophomore standing at the time of participation.

#### **Requirements**

- 12.420 International Business and Trade Seminar I (4)
- 12.421 International Business and Trade Seminar II (4)
- 12.422 International Business and Trade Research Project (4)  
or  
an elective course may be substituted for the research project
- 12.423 International Business and Trade Internship (4)

## Minor in Business Administration

Designed to provide a minimum coverage of the common body of knowledge in business administration for nonbusiness majors.

### Minor Requirements

- A total of 24 credit hours

### Course Requirements

Please note that 19.100 Macroeconomics and 19.200 Microeconomics are prerequisites to 11.300 Principles of Marketing, and that 42.202 Basic Statistics is a prerequisite to 13.365 Corporate Finance. These courses must be successfully completed before starting the Minor in Business Administration.

- 10.353 Principles of Organizational Theory, Behavior and Management (3)
- 10.452 Business Responsibility in American Society (3)
- 11.300 Principles of Marketing (3)
- 12.300 Fundamentals of International Business (3)
- 13.385 Corporate Finance (3)
- 14.201 Business Law (3)
- 14.240 Principles of Accounting I (3)
- 14.241 Principles of Accounting II (3)

While not required, the following additional course or its equivalent is highly recommended:

- 40.260 Introduction to Computing /N (4)

## GRADUATE PROGRAMS

### Master of Business Administration (M.B.A.)

The goal of the M.B.A. program is to develop practical business managers with both the analytical ability and managerial skills to be able to succeed in the complex, technical arena of world-wide businesses today and in the future.

The M.B.A. program contains within its required curriculum the business perspectives and core areas required by the American Assembly of Collegiate School of Business. The M.B.A. is a broad, general management program with the opportunity for emphasis in a particular field.

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have earned a satisfactory score on the Graduate Management Admission Test (GMAT) and a satisfactory grade point average for the last 60 hours of academic work from a Council on Postsecondary Accreditation (COPA) regionally accredited institution.

Applicants whose first language is not English may be required to pass a special English test before they are permitted to register for Kogod College courses. Students who

are not native English speakers must also be certified by the English Language Institute.

Students are admitted into three separate tracks of the program. Track one is a full-time program which starts in August of each year. This program is a lock-step program of between 12 and 14.5 credit hours per semester in which the degree is completed in four consecutive semesters (fall, spring, fall, spring). Track two is identical to track one except that it starts in January of each year. Students complete the first year of this program during the spring and summer semesters thereby catching up with individuals in track one by the fall of the second year. For track two students, the degree is completed in approximately 18 months (spring, summer, fall, spring). Track three is a part-time program. Within the limits of prerequisites and course availability, students may move through track three at their own pace. At the completion of the course work specified in the first year of the full-time program, students may switch between the full-time and the part-time program with the approval of the Dean of the Kogod College.

### Degree Requirements

- A total of 54 credit hours of approved graduate course work
- Research requirement (6 credits): Students must earn a grade of B or better in courses specified from the total credit hour requirement as a non-thesis option:  
18.624 Applied Strategic Management in a Global Environment I (1.5)  
18.625 Applied Strategic Management in a Global Environment II (1.5)  
18.626 Field Practicum (3)
- Orientation requirement: All students are required to participate in an orientation program prior to the start of classes in their first semester. The orientation lasts two weeks for full-time students and is conducted over two weekends for part-time students. The program includes mathematics and computer skills workshops, assessments of managerial skills, introduction to the case method, and an overview of university resources such as the library and placement services.
- Workshop requirement: Each semester a workshop designed to develop the student's managerial skills is offered. Workshops are graded on a pass/fail basis. Students must pass all workshops to successfully complete their graduate programs.

### Course Requirements (39 credits)

#### Business Core and Breadth

- 18.601 Leadership Practicum (.5)
- 18.602 Leadership Practicum (.5)
- 18.605 Managerial Economics I: Business, Government and the International Economy (2)
- 18.606 Managerial Economics II: Economics of the Firm and Industry (2)
- 18.607 Financial Accounting Concepts and Applications (2)
- 18.608 Managerial Accounting Concepts and Applications (2)

- 18.609 Organizational Behavior and Human Resource Management (3)
- 18.610 Quantitative Methods I: Statistics in Managerial Decision Making (2)
- 18.611 Quantitative Methods II: Operations Research in Managerial Decision Making (2)
- 18.612 Marketing Management I: Market Analysis (1.5)
- 18.613 Marketing Management II: Managing Marketing Programs (1.5)
- 18.614 Financial Management I (1.5)
- 18.615 Financial Management II (1.5)
- 18.616 Management Information Systems: Foundations (1.5)
- 18.617 Management Information Systems: Practice (1.5)
- 18.618 Manager in the International Economy (3)
- 18.621 Quality Management (2)
- 18.622 Business and Society (1.5)
- 18.623 Legal Environment of Global Business (1.5)
- 18.624 Applied Strategic Management in a Global Environment I (1.5)
- 18.625 Applied Strategic Management in a Global Environment II (1.5)
- 18.626 Field Practicum (3)

### **Elective Courses (6 credits)**

Students complete 6 credits of elective courses which may be taken in business, international relations, government, or other relevant disciplines. Students may also use their elective courses to take additional courses in an area of concentration.

### **Concentrations (9-18 credits)**

All students declare a concentration and complete a minimum of 9 credits in this concentration. Students may choose departmentally designed concentrations, or they may design their own concentration with the approval of their faculty adviser.

#### **Accounting (12 to 18 credits)**

The Accounting concentration is designed to prepare graduates for management careers and to provide them with basic conceptual knowledge of accounting as a foundation for accounting career development.

The Accounting concentration varies from 12 to 18 credits of accounting course work beyond the MBA core financial and managerial accounting modules. Students lacking prior upper level accounting education will be required to take 18 credits in accounting as described below.

**Note:** Students with appropriate prior accounting education at either the undergraduate or graduate levels may waive up to 6 credits of the specified course work in accounting without replacement, thus reducing the area from 18 credits to a minimum of 12 credits. Each of the specified accounting modules may be waived based on

prior upper level accounting of taxation courses approved by the Accounting department chair. Accounting module waivers are limited to a total of 6 credits.

- 14.621 Financial Accounting and Reporting (1.5)
- 14.625 Managerial Accounting: Cost Behavior and Determination (1.5)
- 14.626 Accounting for Management Planning and Control (1.5)
- 14.627 Federal Income Taxation: Individuals (1.5) or 14.626 Federal Income Taxation: Business Entities (1.5)
- 14.651 Accounting Information Systems: Transaction Processing (1.5) or 14.652 Accounting Information Systems: Control and Special Topics (1.5)
- 14.653 Auditing Theory, Concepts and Standards (1.5)
- 14.661 Accounting for Governmental Organizations (1.5)
- 14.671 Accounting in a Multinational Environment (1.5) or 14.672 International Accounting: Technical Issues (1.5)
- Two of the following modules:  
14.622 Asset Valuation and Reporting (1.5)  
14.623 Financial Accounting for Debt and Equity (1.5)  
14.624 Special Topics in Financial Accounting (1.5)  
Three credits of Accounting electives selected with the approval of the department chair

### **Business Management Information Systems (9 credits)**

Nine credits from the following with the approval of the faculty adviser:

- 18.651 Database Management Systems in Business (3)
- 18.652 Strategic Management of Information Technology (1.5)
- 18.653 Issues in Information Systems Management (1.5)
- 18.654 International Issues in Information Technology (1.5)
- 18.655 Decision Support and Executive Support Systems (1.5)
- 18.656 Seminar in Business Management Information Systems (1.5)
- 55.560 Systems Analysis and Design (3)

### **Economic Development Management (9)**

Nine credits from the following with the approval of the faculty adviser:

- 19.560 Survey of Economic Development (3)
- 33.636 Micropolitics of Development (3)
- 33.637 International Development (3)

## 180 Kogod College of Business Administration

54.814 Development Management (3)

### **Entrepreneurship and Management (9 credits)**

- 18.661 Entrepreneurship and New Venture Management (3)
- 18.662 Managing Small and Growing Ventures (1.5)
- 18.663 Managing a Family Business (1.5)
- 18.664 Entrepreneurial Leadership and Organizational Productivity (1.5)
- 18.665 Management of Entrepreneurship in Service Organizations (1.5)

### **Finance (9 credits)**

Required (3 credits):

- 18.670 Research Methods in Finance (1.5)
- 18.671 Seminar in Finance (1.5)
- Select four modules (6 credits ) from the following (exceptions require the approval of the department chair):
  - 18.672 Working Capital Management (1.5)
  - 18.673 Long-Term Financial Strategies (1.5)
  - 18.674 Financial Statement Analysis: Information Usage (1.5)
  - 18.675 Financial Statement Analysis: Industry Analysis (1.5)
  - 18.676 Equity Analysis (1.5)
  - 18.677 Fixed Income Analysis (1.5)
  - 18.678 Financial Futures and Other Derivative Instruments (1.5)
  - 18.679 Portfolio Theory and Asset Selection (1.5)
  - 18.680 Portfolio Management and Hedging Strategies (1.5)
  - 18.681 Financial Management of Depository Institutions (1.5)
  - 18.682 Financial Markets and Institutions (1.5)
  - 18.726 Secondary Mortgage Markets (1.5)
  - 18.700 International Finance (3)

Although students in finance may take any four of these modules, those interested in pursuing a specific finance track should take the following courses:

#### *Corporate Finance:*

- 18.672 Working Capital Management (1.5)
- 18.673 Long-Term Financial Strategies (1.5)
- 18.674 Financial Statement Analysis: Information Usage (1.5)
- 18.675 Financial Statement Analysis: Industry Analysis (1.5)

#### *Investments (any four of five):*

- 18.676 Equity Analysis (1.5)
- 18.677 Fixed Income Analysis (1.5)
- 18.678 Financial Futures and Other Derivative Instruments (1.5)
- 18.679 Portfolio Theory and Asset Selection (1.5)
- 18.680 Portfolio Management and Hedging Strategies (1.5)

#### *Financial Markets and Institutions:*

- 18.678 Financial Futures and Other Derivative Instruments (1.5)

18.681 Financial Management of Depository Institutions (1.5)

18.682 Financial Markets and Institutions (1.5)

18.726 Secondary Mortgage Markets (1.5)

### **Human Resource Management (9 credits)**

Nine credits from the following:

- 18.730 Performance Management (3)
- 18.731 Compensation Systems (1.5)
- 18.732 Retirement Plan Management (1.5)
- 18.733 Employee Benefits Management (1.5)
- 18.734 Human Resource Development (1.5)
- 18.735 National and International Labor Policy (1.5)
- 18.738 Recruiting and Selecting a Diverse Workforce (1.5)
- 18.767 Employer and Employee Rights (1.5)
- 18.738 Workforce Planning (1.5)

### **International Business (9 credits)**

Students with a concentration in International Business choose from one of the following three tracks:

#### *International Finance:*

- 18.700 International Finance (3)
  - 18.701 International Banking (1.5)
  - 18.702 Legal Issues in International Investment and Trade (1.5)
  - Three credits from the following modules:
    - 14.671 Accounting in a Multinational Environment (1.5)
- Any Advanced Finance Module (18.670–18.682)

#### *International Marketing:*

- 18.703 Culture and International Marketing (1.5)
- 18.704 International Marketing Strategies (1.5)
- 18.705 Export/Import Management (1.5)
- 18.706 International Market Research (1.5)
- Three credits from the Advanced Marketing Modules (18.710–18.719)

#### *International Management:*

- 18.707 Managing Human Resources in Multinational Corporations (1.5)
- 18.708 Issues in International Training and Labor Relations (1.5)
- 18.709 Comparative Management Systems (3)
- Three credits from the Advanced Management Modules (18.651–18.656, 18.661–18.665, 18.690–18.698)

### **Marketing (9 credits)**

Required Modules (4.5 credits):

- 18.710 Marketing Research Methods (1.5)
- 18.711 Strategic Marketing Analysis (1.5)
- 18.712 Marketing Planning and Execution (1.5)

Elective Modules from the following (4.5 credits):

- 18.713 Marketing Research Applications (1.5)
- 18.714 Buyer Behavior (1.5)
- 18.715 Promotion Management (1.5)

- 18.716 Advertising Management (1.5)
- 18.717 Legal and Regulatory Issues In Marketing Management (1.5)
- 18.718 Social and Ethical Dimensions of Marketing Strategy (1.5)
- 18.719 European Marketing Strategies (3)

#### **Real Estate (9 credits)**

Required Module (1.5 credits):

- 18.720 Research Methods In Real Estate (1.5)

Elective Modules: choose any five of the following (7.5 credits):

- 18.721 Real Estate Development (1.5)
- 18.722 Real Estate Asset Management (1.5)
- 18.723 Real Estate Market Analysis (1.5)
- 18.724 Real Estate Finance (1.5)
- 18.725 Geo-Demographic Analysis (1.5)
- 18.726 Secondary Mortgage Markets (1.5)
- 18.727 Urban Growth Simulation (1.5)

#### **Cooperative Education Opportunities**

Cooperative Education Field Experiences may be available for up to 6 elective credits. A prerequisite for all graduate co-ops is completion of 18.601-18.618.

### **Master of Science Degrees**

The Kogod College offers two Master of Science degrees which are designed to meet the special educational requirements of the accounting profession. The objective of the M.S. in Accounting program is to provide graduates with greater breadth and depth in accounting education than is possible in baccalaureate or M.B.A. programs in preparation for careers as professional accountants in a variety of organizational settings. Graduates of this program are prepared to analyze complex accounting issues and to exercise professional judgement in making decisions by drawing on an integrated and comprehensive body of accounting knowledge. The objective of the M.S. in Taxation program is to provide comprehensive, in-depth study of substantive and procedural aspects of taxation to prepare graduates for careers as professional tax specialists.

In addition to the accounting and taxation fields of specialization, both M.S. programs assure that graduates have mastered the breadth of knowledge in business administration and management essential for decisive action in professional practice. Both M.S. degrees may be obtained by attending evening classes part time.

### **M.S. in Accounting**

#### **Admission to the Program**

Requirements for admission to the program are the same as those for the M.B.A. degree. In addition to meeting the minimum university requirements for graduate study, applicants must have earned a satisfactory score on the Graduate Management Admission Test (GMAT) and a satisfactory grade point average for the last 60 hours of academic work from a Council on Postsecondary Accreditation (COPA) regionally accredited institution. Prior education in business or accounting is not necessary. M.S. in Ac-

counting students are subject to the same mathematics competency requirements as M.B.A. students.

#### **Degree Requirements**

Degree requirements vary from a minimum of ten graduate courses to a maximum of 20 courses depending on an evaluation of each student's educational background. The complete M.S. in Accounting curriculum consists of 60 credit hours of approved graduate work including ten Business Common Body of Knowledge (CBK) courses and ten courses in the Accounting specialization.

A minimum of 30 credit hours must be taken in residence.

*Note: The M.S. in Accounting program will be revised effective for the 1995-96 academic year. Students admitted in 1994-95 will be advised as to the requirements for the program.*

#### **Course Requirements**

##### **Business Common Body of Knowledge (CBK) (ten courses)**

- 10.606 Managerial Statistics (3)
- 10.608 Production and Operations Management (3)
- 10.610 Organizational Theory and Behavior (3)
- 10.655 Management Information Systems (3)
- 10.755 Strategic Management (3)
- 11.601 Marketing Management (3)
- 13.605 Financial Management (3)
- 13.611 Managerial Economics (3)
- 14.602 Legal Environment of Professional Accounting (3)
- 14.603 Accounting Concepts and Applications (3)

##### **Accounting Specialization (ten courses)**

- 14.547 Advanced Financial Accounting (3)
  - 14.604 Federal Income Taxation (3)
  - 14.640 Financial Accounting I (3)
  - 14.641 Financial Accounting II (3)
  - 14.645 Managerial Cost Accounting (3)
  - 14.649 Auditing Theory and Practice (3)
  - 14.650 Accounting Information Systems (3)
  - 14.780 Seminar In Accounting Theory (3)
  - Two accounting or taxation electives
- The electives must be selected with approval of the department chair from the following alternatives:
- 14.660 Governmental, Not-for-Profit, and Fiduciary Accounting (3)
  - 14.670 Accounting for Multinational Operations (3)
  - 14.739 Managerial Accounting and Business Policy (3)
  - or
  - Approved graduate taxation courses

## M.S. in Taxation

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must have earned an undergraduate bachelor's degree in business administration from a COPA regionally accredited institution with a satisfactory grade point average for the last 60 credit hours and a satisfactory score on the Graduate Management Admission Test (GMAT).

The applicant must demonstrate satisfactory completion of course work equivalent to the Common Body of Knowledge for undergraduate business education as currently defined by the American Assembly of Collegiate Schools of Business (AACSB). In addition, the applicant must have completed two semesters of intermediate accounting, one semester of business law, and one semester of federal income taxation. Any deficiencies in the above prerequisite courses must be completed at the graduate level at the American University after admission to the program, and are in addition to other program requirements.

### Degree Requirements

The M.S. in Taxation requires ten graduate tax courses (30 credit hours), including two required core tax courses (6 hours), a research component (6 hours), and six elective tax courses (18 hours). At least one of the elective courses must be chosen from the 800-level electives.

M.S. in Taxation students are subject to the same mathematics competency requirements as the M.B.A. students.

### Course Requirements

#### Core Tax Courses (two courses)

- 14.630 Legislative and Judicial Foundations of Income Tax (3)
- 14.631 Tax Research and Procedure (3)

#### Research Component (six credit hours)

There are three options to satisfy the research component. The first two alternatives require a written thesis and the third option requires two research oriented courses in lieu of a thesis.

##### Option 1

- 14.797 Master's Thesis Seminar (6)

##### Option 2

- 14.750 Tax Policy (3)
- 14.797 Master's Thesis Seminar (3)

##### Option 3: Nonthesis Option

- 14.750 Tax Policy (3)
- 14.751 Seminar in Business Tax Planning (3)  
or
- 14.752 Seminar in Family Financial Planning (3)

The thesis and all research component courses must be completed with a grade of B or better.

### Elective Courses (six courses)

- Six courses chosen from the following:
  - 14.632 Estate and Gift Tax (3)
  - 14.633 Corporation Income Taxation I (3)
  - 14.740 Corporation Income Taxation II (3)
  - 14.741 State and Local Taxation (3)
  - 14.742 Special Tax Topics (3)
  - 14.743 International Taxation (3)
  - 14.744 Advanced Topics in Tax Accounting and Procedures (3)
  - 14.745 Employee Benefit Tax Planning (3)
  - 14.746 Taxation of Real Estate Transactions (3)
  - 14.747 Partnership Taxation (3)
  - 14.751 Seminar in Business Tax Planning (3)  
(If not taken in satisfaction of the non-thesis option research component)
  - 14.752 Seminar in Family Financial Planning (3)  
(If not taken in satisfaction of the non-thesis option research component)

## J.D. /M.B.A. Joint Program

A joint J.D./M.B.A. program is offered by the Kogod College of Business Administration and the Washington College of Law.

### Admission to the Program

Each applicant must satisfy the admission requirements of both Kogod College and Washington College of Law before being admitted to the program. However, students who have been admitted to Washington College of Law will not be required to take the GMAT.

### M.B.A. Course Requirements

#### Business Core (38 credits)

Joint program students must take all first-year courses in the M.B.A. program (27 credits):

- 18.605 Managerial Economics I: Business, Government and the International Economy (2)
- 18.606 Managerial Economics II: Economics of the Firm and Industry (2)
- 18.607 Financial Accounting Concepts and Applications (2)
- 18.608 Managerial Accounting Concepts and Applications (2)
- 18.609 Organizational Behavior and Human Resource Management (3)
- 18.810 Quantitative Methods I: Statistics in Managerial Decision Making (2)
- 18.811 Quantitative Methods II: Operations Research in Managerial Decision Making (2)
- 18.612 Marketing Management I: Market Analysis (1.5)
- 18.613 Marketing Management II: Managing Marketing Programs (1.5)
- 18.614 Financial Management I (1.5)
- 18.815 Financial Management II (1.5)



- 18.616 Management Information Systems: Foundations (1.5)
- 18.617 Management Information Systems: Practice (1.5)
- 18.618 Manager in the International Economy (3)

Joint program students have the option to take the following second year courses or substitute advanced functional area courses approved by the adviser (5 credits):

- 18.621 Quality Management (2)
- 18.624 Applied Strategic Management in a Global Environment I (1.5)
- 18.625 Applied Strategic Management in a Global Environment II (1.5)

Joint program students may substitute appropriate law school courses for the following second year courses (3 credits):

- 18.622 Business and Society (1.5)

- 18.623 Legal Environment of Global Business (1.5)

Joint program students may substitute an appropriate supervised 3-credit legal clinical practice experience for 18.626 Field Practicum (3)

#### **Elective, Concentration, and Workshop Courses**

Joint program students may use appropriate law school courses for the 6 elective credits and the 9 credit concentration in the M.B.A. program, and may substitute appropriate legal practice skills courses from the law school for the required managerial skills workshops in the M.B.A. program.

#### **J.D. Degree Requirements**

For the J.D. degree, students must complete 86 credit hours. The Washington College of Law may give credit toward the J.D. degree up to a maximum of 6 credit hours for courses or seminars taken at Kogod College, provided they are appropriate and approved by the Joint Washington College of Law-Kogod College Committee.



Dean Louis Goodman, School of International Service, chats with some of his students.

# School of International Service

**Dean** Louis W. Goodman

**Associate Dean for Academic Affairs**

Nanette S. Levinson

**Chair, Department of Comparative and Regional Studies** J. Mittelman

**Chair, Department of International Politics and Foreign Policy** P. Brenner

**Director, International Communication Program** H. Mowlana

**Director, International Development Program** S.H. Arnold

**Director, J.D./M.A. Program in Law and International Affairs** T.J. Farer

**Director, Ph.D. Program** J.M. Richardson

## **Full-Time Faculty**

**Professor** P. Brenner, D.L. Clarke, S.D. Cohen, W.C. Cromwell, T.J. Farer, J.J. Finan, R.H. Gabriel (University Emeritus), L.W. Goodman, R.W. Gregg, E.S. Griffith (University Emeritus), G.L. Harris (Emeritus), W.G. Hunsberger (Emeritus), M.D. Irish (Emerita), K.P. Landon (Emeritus), M.F. Lindsay (Emeritus), L.L. Lubrano, S. Mardin, J. Mittelman, A.D. Mott (Emeritus), H. Mowlana, W.C. Olson (Emeritus), N.G. Onuf, F.J. Plotrow (Emeritus), D.D. Randall (Emeritus), J.M. Richardson, A.A. Said, M. Struelens (Emeritus), B.B. Tyson (Emeritus), A.L. Vilakazi (Emeritus), L.W. Wadsworth (Emeritus), M.P. Walker (Emeritus), G. Weaver, L.C. Wilson

**Associate Professor** S.H. Arnold, F. Cheru, J. Goldstein, M. Hammer, D. Hirschmann, W. Kincaide, N.S. Levinson, J. Macartney, R. Marlin-Bennett, V. Samarasinghe

**Assistant Professor** C. Brasher, R. Broad, S. Hoagland, H. Kim, B. Koulov, C. Lankowski, J. Lee, P. Lewis, C. Malsch, M. Pasha, A. Phillips, C. Rossi, C. Schneider, S. Silvia, A. Stam, M. Tamamoto, P. Wapner

**Diplomat in Residence** C. Maksoud

## **Research Faculty**

**Assistant Research Professor** J. Mendelson

The School of International Service (SIS) offers professional training in international affairs. The programs are based on an interdisciplinary curriculum oriented towards the liberal arts that encourages students to explore foreign affairs through the contributions of political scientists, sociologists, anthropologists, economists, attorneys, historians, and specialists in communication.

The school offers exceptional opportunities for undergraduate and graduate studies. These opportunities evolve from the location of the university in a world capital and from the rich human and documentary resources which enhance the school's educational programs.

At all times the link between the school and its Washington environment nourishes the academic growth of its students. Whatever their career objectives, students of the school participate in programs that are multidisciplinary, problem and policy oriented, and uniquely adapted to those opportunities inherent in the metropolitan Washington location.

## **The Faculty**

The diversity of the 59 full-time faculty members of the School of International Service in terms of academic disciplines and professional experience, both in the United States and abroad, exemplifies the multidisciplinary and cross-cultural aspects of international relations. To supplement the regular faculty, the school takes advantage of an extraordinary number of highly qualified experts in the Washington area. The school regularly appoints adjunct and visiting professors and benefits from their expertise in the field of international relations. As a center of public dialogue, the school brings leading experts from around the world to address emerging issues in international affairs.

### **Internships and Cooperative Education Opportunities in Washington, D.C.**

Only in Washington can the subject of international affairs be studied in such a relevant context. This location affords students opportunities for hands-on learning with academic credit through an increasing number of internships in government and nongovernment agencies with international interests. Internships are available with international organizations, congressional committees, lobbying groups, research organizations, and government offices of special professional interest to the SIS student. Cooperative education is an academic program that places students in preprofessional jobs for which they earn degree credit. Students who participate in the cooperative education experience are often offered permanent employment as a result of their co-op assignments.

### **Career and Professional Opportunities**

The school has had great success preparing students for international service. Graduates have established flourishing careers in fields including foreign service, economic development, intelligence gathering and assessments, disaster relief, policy analysis, congressional affairs, and technology transfer. Graduates accept positions in Washington and elsewhere with agencies concerned with health, food resources, population, security, arms control, diplomacy, and international trade and banking. SIS alumni also serve in the international branches of organizations involved in law, agriculture, science, religion, culture, printing and publishing, journalism, management, accounting, and higher education. The wide range of government activities, including the Foreign Service, the Armed Forces, and Congress in Washington, D.C. creates unique opportunities for career development.

### **Honor Society**

The International Relations Honor Society, Alpha Chapter of Sigma Iota Rho, was founded at The American University on April 12, 1984. Sigma Iota Rho is an interdisciplinary scholarly recognition society founded for undergraduates whose course of study concentrates on international relations.

### **Undergraduate Study**

Students may select either the B.A. in International Studies or the B.A. in Language and Area Studies. The B.A. in International Studies begins with foundation courses in world politics, Western traditions, non-Western area studies, U.S. politics, and economics. Students take core courses in U.S. foreign policy, international communication, international development, international economic policy, and research methods. While building this foundation, students also complete the school's modern foreign language requirement.

Building on the foundation and core courses, students select an area specialization (Africa, the Americas, Asia, Europe, the Middle East, or Russia and Central Eurasia) and a functional field of concentration (International Politics, U.S. Foreign Policy, International Communication, International Development, International Economics/Economic Policy, Islamic Studies, or Peace and Conflict Resolution Studies). The program capstone is the Integrative Senior Seminar.

The B.A. in Language and Area Studies offers a choice of the following area studies concentrations: French/Europe, German/Europe, Spanish/Latin America, and Russian/Area Studies. This degree program provides a foundation in language and culture courses complemented by a special program of area-related social science courses.

There also is a variety of course offerings with an international focus offered by other teaching units including anthropology, business, communication, economics, education, government, history, language, philosophy, and sociology that complement the school's degree programs.

### **Study Abroad**

Study abroad is encouraged and students frequently take advantage of the opportunity to learn in another culture. The university officially sponsors programs in London, Paris, Rome, Madrid, Brussels, Vienna, Copenhagen, Poland, Budapest, Prague, Moscow, Buenos Aires, Santiago, Beijing, and Kyoto, Japan. Participation in programs of study sponsored by other accredited U.S. collegiate institutions is allowed. Such academic credit is readily transferable to the American University. Tours to other nations led by faculty members are occasionally offered during the academic year, during semester breaks, and in the summer.

### **Graduate Study**

The School of International Service offers an M.A. in International Affairs, an M.A. in International Communication, an M.A. in International Development, an M.S. in Development Management, a combined J.D./M.A. in Law and International Affairs, and a Ph.D. in International Relations. The school's graduate programs are grounded in the social sciences and reflect a strong commitment by the school's faculty to teaching and research.

### **Unique Educational Resources**

The American University offers qualified undergraduates and graduate students the opportunity to enroll in courses at any of the institutions in the Consortium of Universities of the Washington Metropolitan Area. By taking advantage of consortium offerings, students may greatly enrich their programs, particularly in specialized interest areas and language study. In addition, graduate students are eligible for direct borrowing privileges from any of the consortium university libraries.

Washington offers unique research facilities including the Library of Congress, the National Archives, and various other libraries maintained by government agencies, public and private international organizations associations, and other area universities.

The university operates the Social Science Computer Laboratory, which provides students access to commonly used mainframe and microcomputer applications. As a member of the Inter-University Consortium for Political and Social Research (ICPSR), the American University possesses over one hundred data sets and has ready access to hundreds of others.

### **Departments and Programs**

The School of International Service includes two departments and two programs: the Department of Compar-

ative and Regional Studies, the Department of International Politics and Foreign Policy, the International Communication Program and the International Development Program.

The Department of Comparative and Regional Studies (CRS) provides unique opportunities for the study of the major regions of the world: Africa, the Americas, Asia, Europe, the Middle East, and Russia and Central Eurasia. The CRS curriculum builds upon the in-depth coverage of these regions by stressing that issues are best understood in comparative perspective.

The Department of International Politics and Foreign Policy (IPFP) includes the subfields of international law and organization, international political economy, peace and conflict resolution, U.S. foreign policy, and international economic policy. Students ground their work in appropriate theory and economics courses.

The International Communication Program, designated by the university as a Center of Excellence, is the oldest such degree program in the United States. It focuses on international communication policy and technology as well as cross-cultural communication.

The International Development Program includes two multidisciplinary degrees which combine international development theory and practice with the goal of improving opportunities for the poor and vulnerable, particularly in developing nations. Its emphases include development management, policy analysis, and development education in the United States.

## UNDERGRADUATE PROGRAMS

### B.A. in International Studies

#### Admission to the Undergraduate Program

Candidates for admission to the school must present evidence of excellent personal and academic qualifications. To be considered for freshman admission, an applicant should have earned at least a B average in secondary school. Cultural factors are considered in evaluating transcript and examination results. Other factors taken into account are leadership qualities, character, and personal interest. Students from other regionally accredited collegiate institutions, and students in other programs at the American University who have completed the freshman year, should maintain a cumulative grade point average of 3.00 (on a 4.00 scale) to be considered for transfer to the school.

#### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

#### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 73 to 77 credit hours with grades of C or better

Up to 18 of these credit hours may also count toward fulfillment of General Education Requirements.

#### Foundation Courses (24 credit hours)

- 33.105 World Politics /S 3:1 (3)
- One course in U.S. politics (3 credit hours) from the following:  
53.110 Politics in the United States /S 4:1 (3-4)  
53.120 Introduction to American Politics /S (3-4)
- Two courses in economics (6 credit hours):  
19.100 Macroeconomics /S 4:1 (3)  
19.200 Microeconomics /S 4:2 (3)
- Two courses focusing on Western traditions (6 credit hours) from the following:  
07.100 European Art: From Cave to Cathedral /A 2:1 (3)  
07.205 Art of the Renaissance /A 2:2 (3)  
23.255 Political Revolutions and Literary Continuity 1660-1798 /A 2:2 (3)  
23.265 Literature and Society in Victorian England /A 2:2 (3)  
29.110 Renaissance and Revolutions: Europe, 1400-1815 /A 2:1 (3)  
29.111 Nationalism and Industrialization: Europe since 1815 /A, S (3)  
29.200 Italian Civilization /A 2:2 (study abroad) (3)  
29.202 The Ancient World: Greece (3)  
29.203 The Ancient World: Rome (3)  
29.204 Medieval Europe (3)  
29.205 America's Quests: the U.S. to 1865 /A 2:2 (3)  
29.215 Social Forces that Shaped America /S 2:2 (3)  
29.235 The West in Crisis: 1900-1945 /S 2:2 (3)  
33.151 Western Tradition I (3)  
33.152 Western Tradition II (3)  
33.318 Liberalism and Its Critics /S (3)  
34.101 Introduction to Jews and Judaism /A (3)  
34.205 Ancient and Medieval Jewish Civilization /S 2:2 (3)  
34.206 Modern Jewish Civilization /S (3)  
53.105 Individual Freedom vs. Authority /A 2:1 (3)  
53.303 Ancient Political Thought (3)  
53.305 Modern Political Thought (3)  
60.105 Western Philosophy /A 2:1 (3)  
60.210 European Philosophy and the American Experiment /S 2:2 (3)  
60.220 Moral Philosophy /A 2:2 (3)  
60.221 Philosophy, Politics, and Society /A, S (3)  
60.300 Ancient and Medieval Philosophy /A (3)  
60.301 Modern Philosophy from Bacon to Hegel /A (3)  
60.302 Nineteenth Century Philosophy (3)  
60.303 Twentieth Century Philosophy (3)  
61.105 The Religious Heritage of the West /A 2:1 (3)  
65.215 The Rise of Critical Social Thought /S 2:2 (3)  
73.110 Western Legal Traditions /S 2:1 (3)  
73.225 American Legal Culture /S 2:2 (3)  
76.150 Women's Voices through Time /A 2:1 (3)

- Two courses in non-Western area studies (6 credit hours). Select one course from each of two different areas listed below.

*Africa*

- 23.150 Third World Literature /A 3:1 (3)  
 33.250 Civilizations of Africa /A 3:2 (3)  
 33.265 Contemporary Africa /S (3)  
 61.210 Asian and African Religious Traditions /A 3:2 (3)

*The Americas*

- 29.241 Colonial Latin America (3)  
 29.242 Latin America since Independence (3)  
 33.276 Contemporary Latin America (3)  
 37.210 Latin America: History, Art, Literature /A 3:2 (3)  
 65.230 Conflict and Change in Latin America /S 3:2 (3)

*Asia*

- 29.250 Civilization and Modernization: Asia /S 3:2 (3)  
 33.161 Civilizations of Asia (3)  
 33.255 Japan and United States /A 3:2 (3)  
 61.185 Forms of the Sacred: Religions of the East /A 3:1 (3)  
 61.210 Asian and African Religious Traditions /A 3:2 (3)

*Middle East*

- 33.245 The World of Islam /A 3:2 (3)  
 33.264 Contemporary Middle East /S (3)  
 34.385 Zionism and the State of Israel (3)  
 61.370 Islam (3)  
 65.225 Contemporary Arab World /S 3:2 (3)

*Russia and Central Eurasia*

- 29.225 Russia: Past and Present /A 3:2 (3)  
 29.230 Early Russian History, 988–1700 (3)  
 29.231 Imperial Russia, 1700–1917 (3)  
 29.232 Twentieth Century Russia (3)  
 33.258 Contemporary Russia /S (3)

**Core Field Courses (12 credit hours)***International Communication (3 credit hours)*

- One course from the following:  
 33.140 Cross-Cultural Communication /S 3:1 (3)  
 33.340 Foundations of International Communication (3)  
 33.341 Intercultural Communication (3)  
 33.349 Selected Topics in International Communication (3)

*International Development (3 credit hours)*

- One course from the following:  
 19.110 The Global Majority /S 3:1 (3)  
 19.307 Political Economy of Economic Development (3)  
 19.308 History of Economic Development (3)  
 21.205 Education for International Development /S 3:2 (3)  
 23.150 Third World Literature /A 3:1 (3)  
 29.120 Imperialism and Revolution /S 3:1 (3)  
 33.110 Beyond Sovereignty /S 3:1 (3)

- 33.337 International Development /S (3)  
 53.235 Dynamics of Political Change /S 3:2 (3)  
 65.110 Views from the Third World /S 3:1 (3)  
 65.230 Conflict and Change in Latin America /S 3:2 (3)

*International Economics / International Economic Policy (3 credit hours)*

- One course from the following:  
 19.311 International Economics /S (3)  
 33.215 Competition in an Interdependent World /S 3:2 (3)  
 33.385 United States Foreign Economic Policy /S (3)  
*U.S. Foreign Policy (3 credit hours)*
- One course from the following:  
 33.382 The Analysis of U.S. Foreign Policy (3)  
 33.384 American Defense and Security Policy (3)  
 33.385 U.S. Foreign Economic Policy /S (3)

**Research Methods (6 to 7 credit hours)**

- Two courses in research methods (6 credit hours):  
 33.206 Introduction to International Relations Research (3)  
*and*  
 One course from the following:  
 33.307 Quantitative Approaches to International Politics (3) (Prerequisite: 33.206 Introduction to International Relations Research or 42.202 Basic Statistics or equivalent)  
 42.202 Basic Statistics /N (4)  
 53.310 Introduction to Political Research (3)  
 55.210 Introduction to Computer Information Systems (3)

**Foreign Language (10 to 12 credit hours)**

- Ten to 12 credit hours of one modern foreign language or intermediate level of competence

**Area Specialization (9 credit hours)**

- Three courses in one of the following regional areas: Africa, the Americas, Asia, Europe, the Middle East, and Russia and Central Eurasia

A minimum of two courses (6 credit hours) must be taken in SIS (33.xxx) and a minimum of two courses (9 credit hours) must be taken at the 300 level or above.

*Africa*

- 03.339 Culture Area Analysis /S (3) (depending on focus)  
 23.150 Third World Literature /A 3:1 (3)  
 33.250 Civilizations of Africa /A 3:2 (3)  
 33.265 Contemporary Africa /S (3)  
 33.573 International Relations of Africa I (3)  
 33.574 International Relations of Africa II (3)  
 61.210 Asian and African Religious Traditions /A 3:2 (3)

*The Americas*

- 03.339 Culture Area Analysis /S (3) (area depending on focus)  
 29.241 Colonial Latin America (3)  
 29.242 Latin America since Independence (3)

- 29.340 Latin American Studies (3) (topics variable)  
 33.276 Contemporary Latin America (3)  
 33.374 Buenos Aires Seminar /S 3:2 (4) (study abroad)  
 33.577 International Relations of Latin America I (3)  
 33.578 International Relations of Latin America II (3)  
 37.210 Latin America: History, Art, Literature /A 3:2 (3)  
 37.357 Introduction to Latin American Literature (3)  
 65.230 Conflict and Change in Latin America /S 3:2 (3)

#### Asia

- 03.339 Culture Area Analysis /S (3) (area depending on focus)  
 29.250 Civilization and Modernization: Asia /S 3:2 (3)  
 29.347 Asian Studies (3) (topics variable)  
 33.181 Civilizations of Asia (3)  
 33.255 Japan and United States /A 3:2 (3)  
 33.366 Asian Power Rivalries (3)  
 33.559 Selected Topics in Cross-National Studies (3)  
 33.561 Modern China (3)  
 33.562 Modern Japan (3)  
 33.567 International Relations of East Asia I (3)  
 33.568 International Relations of East Asia II (3)  
 33.569 International Relations of Southeast Asia (3)  
 61.185 Forms of the Sacred: Religions of the East /A 3:1 (3)  
 61.210 Asian and African Religious Traditions /A 3:2 (3)  
 61.373 Hinduism (3)

#### Europe

- 29.110 Renaissance and Revolution: Europe, 1400-1815 /A 2:1 (3)  
 29.111 Nationalism and Industrialization: Europe since 1815 /A, S (3)  
 29.200 Italian Civilization /A 2:2 (3) (study abroad)  
 29.201 The Italian Renaissance (3)  
 29.204 Medieval Europe (3)  
 29.221 History of England I (3)  
 29.222 History of England II (3)  
 29.238 France since Napoleon (3)  
 29.239 Modern Germany since 1848 (3)  
 29.318 Nazi Germany (3)  
 29.320 War and Diplomacy: Napoleon to Bismarck (3)  
 29.326 European Society in the Nineteenth and Twentieth Centuries (3)  
 29.327 Twentieth Century Europe (3)  
 29.333 Tudor-Stuart England (3)  
 29.334 Victorian England (3)  
 29.335 Twentieth Century England (3)  
 29.336 History of Ireland (3)  
 29.337 British Studies (3) (topics variable)  
 33.259 Comparative Change in East Europe (3)  
 33.331 An Overview of the European Community (3)  
 33.355 The Relations of Western European Nations (3)  
 33.372 Brussels Seminar /S 3:2 (4) (study abroad)  
 33.373 Madrid Seminar /S 3:2 (4) (study abroad)  
 33.375 Vienna Seminar: Contemporary Austria, Germany, and Switzerland /S 3:2 (4) (study abroad)

- 33.530 Colloquium on the Common Market (3)  
 33.533 Seminar on the European Community's Current Programs (3)  
 33.551 Politics and Society in Europe since 1945 (3)  
 33.557 Foreign Policy Formulation in West European States (3)  
 34.312 Holocaust and Modern Man /A (3)  
 37.326 French Topics (3) (topics variable)  
 37.336 German Topics (3)  
 37.428 Civilisation Française I (3)  
 37.429 Civilisation Française II (3)  
 37.438 German Civilization I (3)  
 37.439 German Civilization II (3)  
 53.434 London Semester: British Politics and European Community 3:2 (3) (study abroad)

#### Middle East

- 33.245 The World of Islam /A 3:2 (3)  
 33.284 Contemporary Middle East /S (3)  
 33.384 Modern Islam (3)  
 33.571 International Relations of the Middle East I (3)  
 33.572 International Relations of the Middle East II (3)  
 34.385 Zionism and the State of Israel (3)  
 61.370 Islam (3)  
 65.225 Contemporary Arab World /S 3:2 (3)

#### Russia and Central Eurasia

- 29.225 Russia: Past and Present /A 3:2 (3)  
 29.230 Early Russian History, 988-1700 (3)  
 29.231 Imperial Russia, 1700-1917 (3)  
 29.232 Twentieth Century Russia (3)  
 29.345 Russian Studies (3) (topics variable)  
 33.258 Contemporary Russia /S (3)  
 33.359 Russia and Central Eurasia in World Affairs (3)  
 33.558 Comparative Politics of the Russian Federation (3)  
 37.200 Russia and the United States /S 3:2 (3)

#### Functional Field of Concentration (9 credit hours)

- Three courses in one of the following functional fields: International Communication, International Development, International Economics/International Economic Policy, International Politics, Islamic Studies, Peace and Conflict Resolution Studies, or United States Foreign Policy.  
 A minimum of two courses (6 credit hours) must be taken in SIS and a minimum of two courses must be taken at the 300 level or above.

#### International Communication

- 33.140 Cross-Cultural Communication /S 3:1 (3)  
 33.340 Foundations of International Communication (3)  
 33.341 Intercultural Communication (3)  
 33.349 Selected Topics in International Communication (3)

#### International Development

- 19.110 The Global Majority /S 3:1 (3)  
 19.307 Political Economy of Economic Development (3)  
 19.308 History of Economic Development (3)

- 21.205 Education for International Development /S 3:2 (3)
- 23.150 Third World Literature /A 3:1 (3)
- 29.120 Imperialism and Revolution /S 3:1 (3)
- 33.110 Beyond Sovereignty /S 3:1 (3)
- 33.337 International Development /S (3)
- 33.537 Special Topics in Development Management (3)
- 53.235 Dynamics of Political Change /S 3:2 (3)
- 65.110 Views from the Third World /S 3:1 (3)

*International Economics/International Economic Policy*

- 19.311 International Economics /S (3)
- 19.371 International Economics: Trade (3)
- 19.372 International Economics: Finance (3)
- 33.215 Competition in an Interdependent World /S 3:2 (3)
- 33.389 Special Topics in Policy Analysis (3)
- 33.465 Contemporary International Trade and Investment Policies (3)
- 33.466 Contemporary International Monetary, Finance, and Energy Policies (3)
- 33.504 Multinational Corporations (3)

*International Politics*

- 29.120 Imperialism and Revolution /S 3:1 (3)
- 29.260 To Arms: People and Nations at War /S 3:2 (3)
- 29.320 War and Diplomacy: Napoleon to Bismarck (3)
- 29.321 War and Peace: Bismarck to Hitler (3)
- 29.362 Studies in War, Peace, Diplomacy, and Power (3)
- 33.110 Beyond Sovereignty /S 3:1 (3)
- 33.215 Competition in an Interdependent World /S 3:2 (3)
- 33.301 Theories of International Politics (3)
- 33.321 International Law (3)
- 33.325 International Organization (3)
- 33.326 Between Peace and War /S (3)
- 33.355 Relations of Western European Nations (3)
- 33.366 Asian Power Rivalries (3)
- 33.504 Multinational Corporations (3)
- 33.518 Legacy of World War II Diplomacy (3)
- 33.519 Special Studies in International Politics (3)

*Islamic Studies*

- 33.245 World of Islam /A 3:2 (3)
- 33.364 Modern Islam (3)
- 33.596 An appropriate Selected Topics (.596) course may be used to fulfill this requirement with permission of the student's adviser (3)
- 61.105 The Religious Heritage of the West /A 2:1
- 61.185 Forms of the Sacred: Religions of the East /A 3:1 (3)
- 61.370 Islam (3)

*Peace and Conflict Resolution Studies*

- 33.110 Beyond Sovereignty /S 3:1 (3)
- 33.308 Introduction to Peace and Conflict Resolution (3) (required)
- 33.321 International Law (3)
- 33.322 Human Rights (3)
- 33.325 International Organization (3)
- 33.326 Between Peace and War /S (3)
- 33.328 Approaches to Peacemaking (3) (required)

*U.S. Foreign Policy*

- 29.362 Studies of War, Peace, Diplomacy, and Power (3)
- 29.364 Twentieth Century United States Response to Revolution (3)
- 33.381 Foreign Policies of the Great Powers (3)
- 33.382 Analysis of United States Foreign Policy (3)
- 33.384 American Defense and Security Policy (3)
- 33.385 United States Foreign Economic Policy /S (3)
- 33.389 Special Topics in Policy Analysis (3)
- 33.396 An appropriate Selected Topics (.396) course may be used to fulfill this requirement with permission of the student's adviser (3)
- 33.465 Contemporary International Trade and Investment Policies (3)
- 33.466 Contemporary International Monetary, Finance, and Energy Policies (3)
- 33.581 Schools of Thought in Contemporary United States Foreign Policy (3)
- 33.583 United States in World Affairs (3)
- 33.588 International Security and Arms Control (3)

**Senior Seminar (3 credit hours)**

- 33.400 Senior Seminar in International Relations (3) (topics vary by term)

**Other Options**

- Students may, where appropriate and with SIS approval, select special topics courses to fulfill requirements.
- Students may also apply up to 3 credit hours toward the major from an approved internship or cooperative education field experience.
- Study abroad course credits may be used toward the major with the approval of SIS.

**Special Opportunities**

Cooperative education programs, internships (including a limited number of U.S. State Department internships), Pan Ethnon, Foreign Policy Semester, *The Diplomatic Pouch*

**University Honors Program**

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To fulfill requirements for University Honors in International Studies, students may enroll in Honors sections of upper-level SIS courses, or in University Honors Colloquia taught by SIS faculty members, or may arrange an Honors supplement to an SIS senior seminar. The school's Honors coordinator advises students in the University Honors Program regarding school options. See the section on the University Honors Program in this catalog for further details.

**B.A. in Language and Area Studies**

Offered jointly by the College of Arts and Sciences (CAS) and the School of International Service (SIS). Students may major in French/Europe, German/Europe, Russian/Area Studies, or Spanish/Latin America.



Refer to the Interdisciplinary Degree Programs chapter in this catalog for admission, degree, and course requirements for this program.

## B.A. in Environmental Studies

The B.A. in Environmental Studies is an interdisciplinary program of studies designed to provide a basic understanding of the scientific and social processes that shape our environment. Each student follows one of two tracks, in Environmental Science or Environmental Policy. Both tracks provide a solid foundation based on the natural sciences as well as the social sciences, through coursework spanning many disciplines, including courses in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs. For a description of this program, see the Interdisciplinary Degree Programs chapter in this catalog.

## International Politics and Foreign Policy Semester

### Admission to the Program

Open to students from the Washington Semester member institutions and to juniors and seniors in good standing at the American University. Recommended prerequisites for the program are at least one course in government or international relations and one in economics.

This program does not lead to a degree, but students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

### Requirements

- 33.491 International Politics and Foreign Policy Seminar I (4)
- 33.492 International Politics and Foreign Policy Seminar II (4)
- 33.493 International Politics and Foreign Policy Research Project (4)
- 33.494 International Politics and Foreign Policy Internship (4)

*Note:* A regular course from among the evening offerings at the American University may be substituted for the internship or the research project.

### Special Opportunities

Internships, Pan Ethnon, *Envoy*, *The Diplomatic Pouch* and off-the-record seminars with foreign policy experts and career officials.

## Peace and Conflict Resolution Semester

### Admission to the Program

Open to students from the Washington Semester member institutions as part of the Washington Semester Program and to juniors and seniors in good standing at the American University.

### Course Requirements:

- 33.486 Peace and Conflict Resolution Seminar I (4)
- 33.487 Peace and Conflict Resolution Seminar II (4)
- 33.488 Peace and Conflict Resolution Research Project (4)
- 33.489 Peace and Conflict Resolution Internship (4) or  
a regular course from among the evening offerings at the American University may be substituted for either the research project or the internship.

*Note:* Participation in this semester fulfills all requirements for a Peace and Conflict Resolution Studies concentration for the B.A. in International Studies.

## Minor in International Studies

### Requirements

- 33.105 World Politics /S 3:1 (3)
- One course (3 credit hours) from the following:
  - 33.381 Foreign Policies of the Great Powers (3)
  - 33.382 The Analysis of United States Foreign Policy (3)
  - 33.384 American Defense and Security Policy (3)
  - 33.385 United States Foreign Economic Policy (3)
  - 33.389 Selected Topics in Policy Analysis (3)
- One course (3 credit hours) from the following:
  - 33.258 Contemporary Russia /S (3)
  - 33.259 Comparative Change in East Europe (3)
  - 33.264 Contemporary Middle East (3)
  - 33.265 Contemporary Africa (3)
  - 33.276 Contemporary Latin America (3)
  - 33.355 The Relations of Western European Nations (3)
  - 33.359 Russia and Central Eurasia in World Affairs (3)
  - 33.366 Asian Power Rivalries (3)
- One course (3 credit hours) from the following:
  - 33.301 Theories of International Politics (3)
  - 33.307 Quantitative Approaches to International Politics (3)
  - 33.321 International Law (3)
  - 33.325 International Organization (3)
  - 33.340 Foundations of International Communication (3)
  - 33.349 Selected Topics in International Communication (3)
- Nine credit hours in a functional field:
  - International Politics
  - International Communication
  - International Development
  - United States Foreign Policy
  - Peace and Conflict Resolution
  - International Economics/International Economic Policy
  - or
  - A regional area specialization: Africa, the Americas, Asia, Europe, the Middle East, or Russia and Central Eurasia

Of the total requirements, 15 credit hours should be taken in SIS and 12 of these should be at the 300 level or above.

## Combined B.A./M.A. Program in International Studies

### Admission to the Program

This program enables qualified undergraduates to earn, in five years of full-time study, both a B.A. in International Studies with a functional concentration in any area of specialization offered by the School of International Service, and a M.A. in International Affairs, International Communication, or International Development. This is accomplished by allowing certain specified graduate level courses to be applied to the requirements of both degrees.

Admission to the combined B.A./M.A. program requires junior standing, a cumulative grade point average of 3.30 (on a 4.00 scale), a 3.30 grade point average in SIS courses, a formal application, a written faculty recommendation, an essay on the student's academic interests and abilities in international affairs, and a review by the SIS Dean. The Graduate Record Examination (GRE) will not be required.

### Course Requirements

- All requirements for the B.A. in International Studies
- All requirements for the M.A. in International Studies, the M.A. International Communication, or the M.A. in International Development

Students may use 6 credits of approved graduate coursework at The American University to satisfy the requirements for both degrees. In addition, the school will recognize up to an additional 3 credits (for the 39 credit hour SIS degree programs) or 6 credits (for the 42 credit hour SIS degree programs) of approved advanced undergraduate level coursework completed at The American University as satisfying graduate program degree requirements.

## GRADUATE PROGRAMS

M.A. in International Affairs  
M.A. in International Communication  
M.A. in International Development  
M.S. in Development Management  
J.D./M.A. in Law and International Affairs  
Ph.D. in International Relations

### Admission to the Programs

Applicants must hold an accredited bachelor's degree with a cumulative grade point average of at least a B+ (3.30 or higher on a 4.00 scale) and should have had at least 24 credit hours of social science course work relevant to international studies. Students who do not meet these minimum requirements, if otherwise admissible, are assigned additional course work in excess of degree requirements specified at the time of admission.

Application deadline for fall admission is January 15 each year; application deadline for spring admission (master's program only) is November 1. Admitted students may defer matriculation for up to two semesters provided

that a written request for deferment is submitted to and approved by both the SIS Graduate Office and the University Graduate Admissions Office.

All applicants are required to submit results of the aptitude section of the Graduate Record Examination (GRE). In addition, international applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL). The minimum TOEFL score for full consideration is 600. (See the International Student Information chapter in this catalog for more information.) All applicants should plan to take the GRE and TOEFL no later than the December administration each year to ensure full consideration of application by the January deadline.

All applicants must submit two letters of reference evaluating undergraduate academic performance and suitability for graduate study in international affairs. Cultural factors are considered in evaluating transcripts and examination results.

Requests for the transfer of a maximum of 6 graduate credit hours from other accredited institutions to be applied to a master's degree are considered after successful completion of 9 credit hours in the graduate program at the American University. A minimum grade of B in each course is required for transfer. Transfer courses must have been completed within eight years of admission and must fulfill stated requirements of the degree program.

### General Degree Requirements

- At least 36 credit hours of approved graduate course work with a cumulative grade point average of 3.00, including:
  - a) At least 15 credit hours in a major field for degree including one theory or schools-of-thought course and one graduate-level economics or international economic policy course appropriate to the field.
  - b) At least 9 credit hours in a related field selected from offerings in SIS or other teaching units of the university.
  - c) At least 6 credit hours in social science research methodology appropriate to the degree program.
  - d) At least 6 credit hours of research: thesis, substantial research paper, or practicum research completed with a grade of B or better.
- Passage of one written comprehensive examination in the major field for degree. To be eligible to take a comprehensive examination, a student must have advanced to candidacy and must have maintained at least a 3.00 grade point average (on a 4.00 scale) in all graduate course work. Information pertaining to comprehensive examinations is contained in the SIS Field Statements available in the SIS Graduate Office.
- Demonstration of research and writing skill through completion of a master's thesis, substantial research paper requirement, or a research practicum.

**Thesis:** 6 credit hours of thesis credit and submission of the thesis.

**Substantial research paper requirement:** Internship and a substantial research paper: one 3 credit hour internship or cooperative education field experience, and one 3 credit hour substantial research paper taken in conjunction with a 600- or 700-level course or two

substantial research papers taken in conjunction with a 600- or 700-level course.

**Research practicum:** 6 credit hours supervised by major field faculty advisers (by permission and specific arrangement).

- Proficiency in a modern foreign language: Research competence in English and another language relevant to the student's career objectives must be certified by the university's Department of Language and Foreign Studies.

### Advancement to Candidacy

Students may apply for advancement to candidacy for the M.A. degree upon completion of 9 hours of graduate course work with a B (3.00) average at the American University.

Students qualifying for advancement must have removed all incomplete grades and satisfied all background deficiencies specified at the time of admission. At the time of advancement, students may request consideration of transfer of up to 6 credit hours from other master's work. If a student's grade point average drops below 3.00 at the end of 18 hours or at any time thereafter, the student's candidacy for degree may be terminated.

When applying for advancement to candidacy, students formally designate their major field of study, foreign language, social science methodology sequence, and 6 hour research requirement in consultation with faculty advisers. Advancement to candidacy qualifies a student to sit for the comprehensive examination. Students applying to take comprehensive examinations must have qualified in their major field of study and must apply for advancement before announced deadlines.

### Special Opportunities

Independent study courses, research internships, special lectures, and seminars enable students to meet renowned scholars and practitioners of international relations to discuss research and career interests. The SIS graduate journal, *Swords & Ploughshares*, publishes articles by faculty and graduate students relating to international affairs. Internships and cooperative education field experience are available for graduate credit. A limited number of graduate fellowships and assistantships are awarded on the basis of merit as well as school and program needs.

**The Center for the Study of the Global South** is an initiative of the Department of International Politics and Foreign Policy in the School of International Service. It is devoted to examining critical issues related to the role of developing countries, which collectively are called the South, in the changing international order. Through public lectures, conferences and publications, the center generates greater awareness and sensitivity toward the concerns of the peoples of the Global South. Its activities provide links between students and faculty throughout the university, and professionals outside of the university, around common concerns related to the South.

**AU-Ritsumeikan Exchange** In March 1992, The American University and Ritsumeikan University in Kyoto, Japan, began the first-ever dual master's degree program involving a Japanese and an American university. This

program selects a limited number of students with both English and Japanese language proficiency to complete a 48-credit hour dual master's degree program in International Affairs within a two-year period. Students working together as a cohort begin their studies at the American University School of International Service and complete their second year of study at Ritsumeikan University Graduate School of International Relations. A cross-cultural, global perspective is integral to the dual degree curriculum. Graduates of the program simultaneously receive a master's degree from The American University and a master's degree from Ritsumeikan University.

## M.A. in International Affairs

### Major Field Concentrations

International Politics (IP), Comparative and Regional Studies (CRS), International Economic Policy (IEP), United States Foreign Policy (USFP)

### Degree Requirements

- International Politics: 36 credit hours of approved graduate course work  
Comparative and Regional Studies, International Economic Policy, and United States Foreign Policy:  
39 credit hours of approved graduate course work
- Advancement to candidacy (see general degree requirements)
- Proficiency in a modern foreign language (see general degree requirements)  
Students with a major field concentration in Comparative and Regional Studies must demonstrate substantive language proficiency, at the FS-3 level at least, in a language appropriate for research in the geographic region of major focus.
- One written comprehensive examination (for information on eligibility and procedures, see general degree requirements)
- Thesis or substantial research paper requirement (see general degree requirements)

### Course Requirements

#### International Politics (IP)

#### Major Field (15 credit hours)

Fifteen credit hours divided into theory, economics, and subfields

#### Theory

- 33.601 Introduction to Theory in International Relations (3)  
or  
33.604 Masterworks of International Relations (3)

#### Economics

- 19.603 Introduction to Economic Theory (3)  
or  
One other 600- or 700-level course in economics (19.xxx) provided prerequisites are met

**Subfields**

- Nine credit hours in one of the following subfields:

*International Political Economy*

- 33.504 Multinational Corporations (3)
- 33.519 Special Studies in International Politics:  
International Economic Policy  
Coordination (3)
- 33.565 Japanese-U.S. Economic Relations (3)
- 33.615 Fundamentals of U.S. Foreign Economic  
Policy (3)
- 33.630 The European Community and International  
Trade (3)
- 33.696 An appropriate Selected Topics (.696) course  
may be used to fulfill this requirement with  
permission of the student's adviser (3)

*International Law and Organization*

- 33.520 Survey of International Law and  
Organization (3)
- 33.621 International Law and the Legal Order (3)
- 33.625 World Organization and World Order (3)
- 33.725 Seminar on Law in International Affairs (3)
- 33.729 Research Seminar in International Law and  
Organization (3)

*Peace and Conflict Resolution*

- 33.519 Special Studies in International Politics:  
Cultural Determinants in International  
Politics (3)  
or  
Human Rights (3)
- 33.588 International Security and Arms Control (3)
- 33.605 Cooperative Global Politics (3)
- 33.607 Peace Paradigms (3)
- 33.710 Colloquium in International Relations:  
Readings in Peace Theory (3)

**Related Field (9 credit hours)**

- Three courses from one of the other major field groups in SIS: Comparative and Regional Studies (CRS), International Development (ID), International Communication (IC), International Economic Policy (IEP), United States Foreign Policy (USFP)  
or  
Three courses making up an optional related field constructed in consultation with the student's faculty adviser or the SIS Graduate Office.

**Social Science Research Methodology (6 credit hours)**

- 33.600 Introduction to Quantitative International Relations (3)
- One specific or topical methodology course (3 credit hours) appropriate to the student's research interests

**Research and Writing Requirement (6 credit hours)**

- 33.797 Master's Thesis Supervision (6)  
or  
Substantial research paper requirement (see general degree requirements) on a topic in the field of International Politics. It may include 33.710 Colloquium in

International Relations (3), which may be repeated once for credit (different topic and instructor required).

**Comparative and Regional Studies (CRS)****Major Field (21 credit hours)**

Twenty-one credit hours in Comparative and Regional Studies consisting of:

- 33.672 Theories of International and Comparative Studies (3)
- 33.673 Comparative and Regional Political Economy (3)  
or  
one 3-credit course in international/global political economy
- 33.674 Integrated Seminar in Comparative and Regional Studies (3) (taken toward the end of the degree program)
- Twelve credit hours of course work on a single geographic region or comparative subject. Students may choose from the following regions or subjects: Africa, the Americas, Asia, Europe, the Middle East, Russia and Central Eurasia, Comparative Politics, or Islamic Studies. (See Field Statement for course recommendations and groupings pertaining to individual regions or subjects.)

**Related Field (9 credit hours)**

- Three courses from one of the other major field groups in SIS: International Politics (IP), International Development (ID), International Communication (IC), International Economic Policy (IEP), United States Foreign Policy (USFP)  
or  
Three courses making up an optional related field constructed in consultation with the student's faculty adviser or the SIS Graduate Office, selected from the courses offered in other teaching units at the American University.  
*Note:* Economics, International Economic Policy (IEP), or International Political Economy (IPE) are highly recommended.

**Social Science Research Methodology (6 credit hours)**

- One general course in social science methodology: 33.600 Introduction to Quantitative International Relations (3)
- One specific or topical methodology course (3 credit hours) appropriate to the student's research interests

**Research and Writing Requirement (6 credit hours)**

- 33.797 Master's Thesis Supervision (6)  
or  
Substantial research paper requirement (see general degree requirements)

*Note:* The thesis must relate to the regional and comparative aspects of the CRS major field concentration. At least 3 credit hours of the substantial research paper requirement should be likewise. A practicum research course must receive prior approval

from a faculty adviser as a proper and useful addition to the major field concentration for the degree.

### **International Economic Policy (IEP)**

#### **Major Field (18 credit hours)**

Eighteen credit hours in International Economic Policy, divided into theory, economics, and major field courses

##### **Theory**

- 33.615 Fundamentals of U.S. Foreign Economic Policy (3)

##### **Economics**

- Three credit hours selected from the following:  
19.603 Introduction to Economic Theory (3)  
A suitable economic policy course in the Department of Economics (19.xxx) with prior approval of the International Economic Policy Field Coordinator, provided prerequisites are met.

##### **Field**

- Twelve credit hours selected from the following:  
33.519 Special Studies in International Politics: International Economic Policy Coordination (3)  
33.565 Japanese-U.S. Economic Relations (3)  
33.665 Contemporary International Trade and Investment Policies (3)  
33.666 Contemporary International Monetary, Finance and Energy Policies (3)  
33.696 Appropriate Selected Topics (.696) courses may be used to fulfill this requirement with permission of the student's adviser (3)  
Approved, relevant course from the Department of Economics (19.xxx)

#### **Related Field (9 credit hours)**

- Students must take three courses in a field related to IEP. These courses may be selected from among the core or principal courses offered in the other major field groups in SIS: Comparative and Regional Studies (CRS), International Politics (IP), International Development (ID), International Communication (IC), or United States Foreign Policy (USFP).  
or  
Three courses making up an optional related field constructed in consultation with the student's faculty advisor or the SIS Graduate Office.

#### **Social Science Research Methodology (6 credit hours)**

- 33.600 Introduction to Quantitative International Relations (3)
- One specific or topical methodology course (3 credit hours) appropriate to the student's research interests

#### **Research and Writing Requirement (6 credit hours)**

- 33.797 Master's Thesis Supervision (6)  
or  
Substantial research paper requirement (see general degree requirements)

*Note:* The thesis or substantial research paper must relate clearly to the field of International Economic Policy.

### **United States Foreign Policy (USFP)**

#### **Major Field (18 credit hours)**

Eighteen credit hours in United States Foreign Policy, divided into theory, economics and international economic policy, and major field courses.

##### **Theory**

- 33.689 Seminar in Foreign Policy Analysis (3)  
or  
33.581 Schools of Thought in Contemporary U.S. Foreign Policy (3)

##### **Economics and International Economic Policy**

- 33.615 Fundamentals of U.S. Foreign Economic Policy (3)  
or  
19.603 Introduction to Economic Theory (3)  
or  
A suitable economic policy course in the Department of Economics (19.xxx) with prior approval of the U.S. Foreign Policy Field Coordinator

##### **Field**

- Twelve credit hours selected from the following:  
33.682 United States Foreign Policy (3)  
33.519 Special Studies in International Politics: Domestic Sources of U.S. Foreign Policy (3)  
U.S. Diplomatic History (3)  
U.S.-Former U.S.S.R. Relations (3)  
33.581 Schools of Thought in Contemporary U.S. Foreign Policy (3)  
33.583 United States in World Affairs (3)  
33.588 International Security and Arms Control (3)  
33.683 Congress and Foreign Policy (3)  
33.684 National Security Policy (3)  
33.689 Seminar in Foreign Policy Analysis (3)  
Special SIS topics courses (offered irregularly) relating directly to U.S. foreign policy, such as Conduct of American Diplomacy, country- or region-specific courses, or select functional issues courses (law, illicit drugs, intelligence, arms control). With the prior approval of the USFP coordinator, a non-SIS course relating directly to U.S. foreign policy may be taken.  
In addition, SIS special topics courses dealing with international economic policy may be selected. See, for example, International Economic Policy Coordination.

#### **Related Field (9 credit hours)**

- Three courses selected from among the core or principal courses offered by one of the other major field groups in SIS: Comparative and Regional Studies (CRS), International Politics (IP), International Development (ID), International Communication (IC), or International Economic Policy (IEP).  
or  
Three courses making up an optional related field constructed in consultation with the student's faculty advisor or the SIS Graduate Office.

**Social Science Research Methodology (6 credit hours)**

- One general course in social science research methodology (3)
- One specific or topical methodology course appropriate to the student's research interests (3)

**Research and Writing Requirement (6 credit hours)**

- 33.797 Master's Thesis Supervision (6)  
or  
Substantial research paper requirement (see general degree requirements).

*Note:* The thesis or substantial research paper must relate clearly to the field of U.S. Foreign Policy.

## M.A. in International Communication

### Admission to the Program

See general admission requirements for master's degrees.

Students applying for admission to this program must have had a strong undergraduate major or minor in social and behavioral sciences or communication. For further information, write to the Director, Program in International Communication, School of International Service, The American University, Washington, DC 20016.

### Degree Requirements

- A total of 36 credit hours of approved graduate course work
- Advancement to candidacy (see general degree requirements)
- Proficiency in a modern foreign language (see general degree requirements)
- One written comprehensive examination in International Communication (for information on eligibility and procedures, see general degree requirements)
- Thesis or substantial research paper requirement (see general degree requirements and IC course requirements)

### Course Requirements

#### Major Field (15 credit hours)

- 33.640 International Communication (3) (prerequisite for all major field courses)
- 33.641 Psychological and Cultural Bases of International Politics (3)
- 33.642 Cross-Cultural Communication (3)
- 33.644 Communication and Social and Economic Development (3)
- 33.645 International and Comparative Communication Policies (3)

#### Related Field (9 credit hours)

- Three courses approved by the IC faculty from one of the other major field groups in SIS (IP, ID, CRS, or USFP)

or

Three courses making up an optional related field constructed in consultation with the student's faculty adviser selected from courses offered in other teaching units at the American University

### Social Science Research Methodology (6 credit hours)

- 33.600 Introduction to Quantitative International Relations (3)
- One of the following:  
33.646 Information Systems and International Communication (3)  
33.695 Research Seminar in International Communication (3)  
33.696 An appropriate Selected Topics (.696) course may be used to fulfill this requirement with permission of the student's adviser (3)

or

One specific or topical methodology course appropriate to the student's research interests and approved by the IC faculty (3)

### Research and Writing Requirement (6 credit hours)

- 33.797 Master's Thesis Supervision (6)  
or  
Substantial research paper requirement (see general degree requirements) selected from the following:  
33.643 Communication and Political Development (3)  
33.690 Independent Study Project in International Studies (1-6) (consultation with and approval of the IC faculty are required)  
33.691 Internship in International Affairs (3)  
or  
33.692 Cooperative Education Field Experience (3)  
33.696 An appropriate Selected Topics (.696) course may be used to fulfill this requirement with permission of the student's adviser (3)  
33.740 Colloquium in International Communication (3)

*Note:* The thesis or substantial research paper must relate to the major field of International Communication.

## M.A. in International Development

### Admission to the Program

See general admission requirements for master's degrees.

### Degree Requirements

- A total of 42 credit hours of approved graduate course work
- Certification of a modern foreign language (see general degree requirements)
- Thesis or substantial research paper requirement (see general degree requirements)
- One written comprehensive examination in International Development

## Course Requirements

### Core Courses (15 credit hours)

- 19.660 Survey of Economic Development (3)  
(Prerequisite: 19.300 Price Theory or 19.603 Introduction to Economic Theory)  
or  
19.596 An appropriate Selected Topics (.596) course may be used to fulfill this requirement with permission of the student's adviser (3)
- 19.603 Introduction to Economic Theory (3)  
(This course may be waived by an examination administered by the Department of Economics. This waiver reduces the total number of credit hours required for the program to 39 and total hours of core courses to 12.)
- 33.636 Micropolitics of Development (3)
- 33.637 International Development (3)
- One of the following:  
33.537 Special Topics in Development Management: Urban Development (3)  
33.596/.696 An appropriate Selected Topics (.596 or .696) course may be used to fulfill this requirement with permission of the student's adviser (3)  
33.635 Advanced Topics in Development Management: Rural Development (3)

### Related Field (15 credit hours)

Fifteen credit hours in related field of concentration:

- With the agreement of the student's faculty adviser, five courses must be selected from an approved list of courses with at least 9 credit hours selected from one specific concentration. Examples of possible concentrations include, but are not limited to the following:

#### *Community Development and Basic Needs*

- 21.679 Nonformal Education and Development (3)
- 33.537 Special Topics in Development Management: Small Scale Enterprise Development (3)
- Urban Development (3)
- 33.638 Selected Topics in International Development Skills (1)

#### *Developmental Banking*

- 19.564 Development Finance (3)
- 19.610 Cost Benefit and Planning (3)
- 19.632 Development Banking (3)
- 19.633 Development Project Cycle (3)
- 19.634 Negotiating Development Assistance (3)
- 19.635 International Capital Markets Workshop (3)

#### *Development Education*

- 21.583 Curriculum Construction and Program Design (3)
- 21.625 Global Education (3)
- 21.631 Fundamentals of Management in Educational Organizations (3)
- 21.635 Training Program Design (3)
- 21.639 Effectiveness Leadership Skills (3)
- 21.678 Comparative and International Education (3)

- 21.679 Nonformal Education and Development (3)
- 33.596 An appropriate Selected Topics (.596) course may be used to fulfill this requirement with permission of the student's adviser (3)

#### *Development Management*

- 33.537 Special Topics in Development Management:  
Managing Decentralization (3)  
Project and Program Analysis (3)
- 33.638 Selected Topics in International Development Skills (1)
- 33.696 An appropriate Selected Topics (.696) course may be used to fulfill this requirement with permission of the student's adviser (3)
- 54.610 Public Management (3)
- 54.614 Development Management (3)
- 54.633 Public Financial Management (3)

#### *Economics and Finance and International Economic Policy*

- 19.564 Development Finance (3)
- 19.610 Cost Benefit and Planning (3)
- 19.611 Survey of International Economics (3)
- 19.632 Development Banking (3)
- 19.671 International Economics: Trade (3)
- 19.672 International Economics: Finance (3)
- 33.504 Multinational Corporations (3)
- 33.615 Fundamentals of United States Foreign Economic Policy (3)
- 33.638 Selected Topics in International Development Skills (1)

#### *Environment and Development*

Students should consult with their adviser concerning approved courses for this concentration.

#### *Gender Studies and Development*

Students should consult with their adviser concerning approved courses for this concentration.

*Note:* Students may propose other concentrations from one of the other major field groups in SIS (IP, IC, CRS, USFP) or from offerings in other teaching units with the approval of the faculty adviser and the IDP director.

### Social Science Research Methodology (6 credit hours)

- 33.600 Introduction to Quantitative International Relations (3)
- One specific or topical methodology course appropriate to the student's research interests and approved by the IDP program

### Research and Writing Requirement (6 credit hours)

- 33.797 Master's Thesis Supervision (6)  
or  
Substantial research paper requirement (see general degree requirements)

### Special Opportunities

**International Development Forum** The School of International Service, in conjunction with the Washington Chapter of the Society for International Development, sponsors a weekly forum in which noted scholars, policy

makers, and international development professionals are invited to interact on campus with students, faculty, and members of the Washington development community in discussions of current issues in the international development field.

## M.S. in Development Management

The M.S. in Development Management offers a unique opportunity for combining development and public administration to provide state of the art training and practice in development management, as presently being developed both in the United States and at important centers in the Third World. The American University's Washington, D.C. location provides a special opportunity to become familiar with major international development organizations and to meet with noted scholars and practitioners active in the field.

### Admission to the Program

See general admission requirements for master's degrees.

Applicants must have significant experience working on development problems or projects in the United States, Western Europe, or in developing countries.

A student who has performed successfully for more than two years as a program or project manager, management analyst, personnel specialist, budget examiner, or in a significant managerial role above the trainee-professional level before admission to the program may apply through the Director of the M.S. in Development Management program to the Dean of SIS to have the total program requirements reduced by up to 6 credit hours. This application takes place as part of the student's advancement to candidacy (see general requirements) and must make reference to a number of areas in which the student has acquired basic competence. Credit earned as part of an internship program does not count in this provision.

### Degree Requirements

- Forty-two credit hours of approved graduate course work
- Certification of a modern foreign language (see general degree requirements)
- One written comprehensive examination in Development Management (for information on eligibility and procedures, see general degree requirements)
- Practicum research: The research requirement for the degree is met by completing 6 credit hours of practicum research.

### Course Requirements

#### Core Courses (18 credit hours)

- 19.660 Survey of Economic Development (3)  
(Prerequisite: 19.300 Price Theory or 19.603 Introduction to Economic Theory)  
or  
19.596 An appropriate Selected Topics (.596) course may be used to fulfill this requirement with permission of the student's adviser (3)

- 19.603 Introduction to Economic Theory (3)  
(This course may be waived by an examination administered by the Department of Economics. This waiver reduces the total number of credit hours required for the program to 39 and core course hours to 15.)
- 33.636 Micropolitics of Development (3)
- 33.637 International Development (3)
- 54.610 Public Management (special section for MSDM) (3)
- 54.614 Development Management (3)

#### Related Field (12 credit hours)

Twelve credit hours in a related field of concentration:

- With the agreement of the student's faculty adviser, four courses must be selected from an approved list of courses, with at least 9 credit hours selected from one specific concentration as follows:

##### *Development Management and Information Systems*

- 55.511 Concepts in Systems and Information (3)
- 55.515 Human Factors in Information Systems (3)
- 55.560 Systems Analysis and Design (3)
- 55.606 Quantitative Analysis for Information Systems (3)

##### *Program and Project Management*

- 33.537 Special Topics in Development Management: Management of Decentralization (3)  
Program and Project Analysis (3)
- 33.596 An appropriate Selected Topics (.596) course may be used to fulfill this requirement with permission of the student's adviser (3)
- 33.638 Special Topics in International Development Skills (1)
- 33.646 Information Systems and International Communication (3)
- 33.696 An appropriate Selected Topics (.696) course may be used to fulfill this requirement with permission of the student's adviser (3)
- 54.604 Public Program Evaluation (3)
- 54.608 Comparative Administrative Systems (3)
- 54.611 Organization Planning and Control (3)
- 54.633 Public Financial Management (3)

Other approved courses that can be used in conjunction with concentrations as specified above:

- 33.537 Special Topics in Development Management: Small Scale Enterprise Development (3)  
Urban Development (3)
- 33.638 Selected Topics in International Development Skills (1)
- 33.596/.696 An appropriate Selected Topics (.596 or .696) course may be used to fulfill this requirement with permission of the student's adviser (3)

Note: Students may propose other elective options from one of the other major field groups in SIS (IP, IC, CRS, USFP) or from offerings in other teaching units only with the approval of the faculty adviser and the MSDM director.



**Social Science Research Methodology (6 credit hours)**

- One general course in social science research methodology such as 33.600 Introduction to Quantitative International Relations (3)
- One specific or topical methodology course (3) appropriate to the student's research interests and approved by the M.S. program

**Research and Writing Requirement (6 credit hours)**

- 33.693 Practicum: Action Research in Development Management (6) Must be completed with a grade of B or better.)

**Special Opportunities**

See the M.A. in International Development program regarding the International Development Forum.

**Graduate Certificate in International Development Management****Admission to the Program**

Open to graduate level students in special contract programs approved by the Director of the International Development Program who have successfully completed the special prerequisite program in English, mathematics/statistics, computers, and economics.

**Certificate Requirements**

- Twenty-one credit hours of approved graduate study, with at least a 3.0 grade point average. Courses with grades of C- or D will not be accepted towards fulfillment of certificate requirements, although these grades will be included in the calculation of the cumulative grade point average.

**Course Requirements (15 credit hours)**

- 19.505 Quantitative Analysis of Economic Models (3) or 33.600 Introduction to Research (3)
- 19.603 Introduction to Economic Theory (3)
- 33.636 Micropolitics of Development (3) or 33.637 International Development (3)
- 33.638 Selected Topics in International Development Skills (1) (two are required)
- 33.693 Practicum: Action Research in Development Management Washington Practicum (1)
- 54.614 Development Management (3)

**Elective Courses (6 credit hours)**

- 19.660 Survey of Economic Development (3)
- 33.636 Micropolitics of Development (3) (if not taken above)
- 33.637 International Development (3) (if not taken above)
- 54.613 Administration of International Programs (3)

Other courses similar to the above may be substituted with prior approval of the Director of the International Development Program.

**J.D./M.A. in Law and International Affairs****Admission to the Program**

Interested students apply to and are accepted by the Washington College of Law (WCL). They then apply to the School of International Service (SIS) for admission to the master's program, which they may begin after completing one full year of full-time study at WCL. SIS reviews the application materials submitted to WCL and accepts LSAT scores in place of the GRE general scores normally required for admission to other programs. For specific criteria employed by SIS, see the M.A. in International Affairs, above. Admission to either of the participating teaching units in no way implies that admission to the other unit will necessarily be granted. Students who have been admitted to the M.A. in International Affairs may apply to WCL. For more information on admission requirements, contact the WCL Admissions Office at (202) 885-2606.

**Degree and Major Requirements**

- A total of 86 credit hours of course work in the Washington College of Law  
Up to 6 credit hours of School of International Service course work may be credited toward the J.D. requirement.
- A total of 36 credit hours of approved graduate work in SIS for the master's portion of the program  
Up to 15 hours of credit in WCL courses dealing with international law and organization or with related topics such as jurisprudence may be credited toward the M.A. requirements (see approved list in the SIS Graduate Office).
- Proficiency in one modern foreign language
- One comprehensive examination in the field of International Politics with a subfield of International Law and Organization administered by the School of International Service.
- Thesis: 6 credit hours (3 hours of which may be taken in conjunction with a course approved by the program director) and submission of a thesis.  
or  
Substantial research paper requirements: two 3 hour research papers in conjunction with approved courses.

**Course Requirements**

- 33.601 Introduction to Theory in International Relations (3)  
or 33.604 Masterworks of International Relations (3)
- 33.725 Seminar on Law in International Affairs (3)
- Legal Methods (3) (Washington College of Law)
- An approved research methods course
- An approved course in economics from WCL

- Nine credit hours of related field courses in an SIS field other than international politics: Comparative and Regional Studies (CRS), International Communication (IC), International Development (ID), or U.S. Foreign Policy (USFP) or other approved related field
- Six credit hours for a master's thesis or two substantial research papers

## Ph.D. in International Relations

### Admission to the Program

The Doctor of Philosophy in International Relations degree program is designed to prepare graduates for professional careers in university teaching and research. The curriculum combines core offerings in international relations theory, comparative politics and methodology with a structure that allows students considerable flexibility. Major emphasis is placed on research. In addition to completing the dissertation, students are encouraged to present conference papers, engage in collaborative work with faculty members and submit articles to refereed journals.

Applicants for the Ph.D. degree program may hold a bachelor's or master's degree or its equivalent in a field related to international relations. Applicants should present a prior cumulative grade point average that is substantially above B (3.50 or higher on a 4.00 scale) in a field relevant to international relations.

All applicants are required to submit results of the aptitude section of the Graduate Record Examination (GRE). In addition, international applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL). The minimum TOEFL score for full consideration is 600 (see the International Student Information chapter in this catalog).

*Note:* Applicants should plan to take the GRE no later than the December administration each year to ensure consideration of their applications by the January 15 deadline.

Applicants for the Ph.D. degree are considered and admitted only for the fall semester each year. The school does not permit students to begin their doctoral work in the spring. Deferral of matriculation in the Ph.D. program is not permitted. In order to be considered for fall admission, applications and all supporting materials must reach the Office of Graduate Admissions no later than January 15. Admissions preference is given to applicants who plan to study on a full-time basis.

All applicants must submit at least three letters of reference which evaluate their graduate performance and their suitability for undertaking doctoral study in international relations. Cultural factors are considered in making admissions decisions and in evaluating transcripts and examination results.

Doctoral students may transfer up to 30 credit hours of previous graduate course work earned at accredited institutions with minimum grades of B in each course. Previously earned graduate credits are applied to Ph.D. program requirements if they are relevant to students' programs and dissertation topics. Requests for transfer of graduate credit are considered at the time of advancement to candidacy. Credits completed more than eight years before the semester of matriculation are not transferable.

### Degree Requirements

- A total of 72 credit hours of approved graduate course work, including at least 12 credit hours of dissertation supervision. A minimum grade point average of 3.25 in all course work is required to remain in good standing and to earn the degree.
- *Proficiency in one modern language:* language proficiency should be in an area relevant to the student's research. Certification is by university-administered examination.
- *Proficiency in social science research methodologies appropriate to the student's field of study and dissertation topic.* Normally this requirement is satisfied by completing 12 credit hours of courses in research methods, as described under Course Requirements, below.
- *Regular participation in the semi-monthly Ph.D. research seminar during the first three years of residency.* Students are expected to present the results of their ongoing research and to serve as discussants for papers presented by faculty and visiting scholars to the university.
- *Satisfactory completion of two written and two oral comprehensive examinations.*

*The oral qualifying examination, normally given at the end of the first year of residency, examines students on theoretical, epistemological and methodological literature and issues in international relations and in comparative and cross-national studies. These areas are addressed in the core seminars that students normally complete during their first year of residence, although the scope of the examination is not limited to topics covered in the seminars. The oral qualifying examination evaluates students' preparation in subjects that are considered to be an essential foundation for doctoral study and research in the School of International Service.*

*Written field comprehensive examinations are taken in two major fields of study selected by the student. One field must be designated from the graduate examination fields offered by the School of International Service as Ph.D. level fields of concentration. A second field may be selected from offerings of SIS or from the offerings of other teaching units of the university that provide doctoral instruction. As an alternative, students may construct a special field, with permission of the Director of Doctoral Studies and the advice of at least three qualified scholars. Two of these scholars must be members of the American University faculty; all three must agree in writing to serve on an examining committee. Students are normally expected to complete their written field examinations no later than three years after entering the program.*

*The Integrative Oral Examination examines students on their dissertation proposals and on substantive issues, literature, theory, epistemology and methodology relevant to the proposed dissertation research. Normally the Ph.D. research seminar provides the venue for this examination. Examiners are qualified scholars designated by the Director of Doctoral Studies, who chairs the examination. Two of the examiners must be members of the American University faculty. Usually, exam-*

iners for the integrative oral examination will be prospective members of the student's dissertation committee. Students are normally expected to complete their integrative oral no later than the end of the seventh semester after entering the program.

For details on scheduling comprehensive examinations and examination procedures, see the Director of Doctoral Studies or the SIS Graduate Office.

- **Advancement to candidacy:** to be advanced to candidacy, students must remedy any deficiencies specified at the time of admission, be certified as proficient in a modern foreign language, complete their social science research methodology requirement, declare their comprehensive examination fields of concentration and pass the oral qualifying examination.
- **Acceptance by the faculty of the School of International Service of a dissertation proposal.** A dissertation proposal must provide a justification for the dissertation research, review relevant literature, identify relevant theoretical, epistemological and methodological issues, and provide a detailed research design, including a timetable for completion of the work.  
Dissertation proposals are first presented at the integrative oral examination. However, successful passage of the integrative oral examination and approval of the dissertation proposal are separate, although overlapping processes. After the integrative oral examination is passed, the dissertation proposal must be formally approved by the Dissertation Committee and by the Dean.

Usually, the scholars selected as examiners also review the dissertation proposal and are the prospective members of the student's dissertation committee. Two members of the reviewing committee must be members of the American University faculty and one must be a faculty member of the School of International Service.

- **Completion of the doctoral dissertation and successful defense of the dissertation in an oral examination.** The dissertation must consist of high quality original research, directly relevant to the student's doctoral program. Dissertation committees comprise a minimum of three members, one of whom serves as chair and as the primary supervisor of the dissertation research. It is the responsibility of the student to secure the agreement of a full-time tenured or tenure track member of the School of International Service faculty to serve as the chair of his or her dissertation committee. At least two members of dissertation committees must be full-time tenured or tenure track members of the American University faculty. The members of the committee must be approved by the Dean of the School of International Service. Students must successfully defend their dissertation in an oral examination on an occasion to which the entire community of the American University is invited. Two weeks notice in the *American Reporter* satisfies this requirement (see the SIS Graduate Office for details). Students must present a completed draft of their dissertation for defense. They are responsible for having the final draft of their dissertation meet university style requirements. Dissertations must be ap-

proved by the Dean of the School of International Service.

- **Statute of limitations:** the *Academic Regulations* of the American University provide that all work for the doctorate must be completed within five years from the date of first enrollment as doctoral student (seven years if the student entered a doctoral program with a bachelor's degree). Prior to the expiration of the time limit specified (or to the expiration of approved extensions) a student may petition for an extension of candidacy. Extensions are approved by the Dean of the School of International Service, upon recommendation of the student's adviser and the Director of Doctoral Studies. In any event, the totality of extensions will not exceed a three year period beyond the applicable duration of five or seven years.

## Course Requirements

- **International relations theory:** doctoral students must take three doctoral seminars constituting a theory core: 33.701 Classical Theory in International Relations (3)  
33.702 Comparative and Cross-National Studies (3)  
33.703 Contemporary Theories of International Relations (3)
- **Social science research methodology:** doctoral students must satisfy a 12 credit hour requirement in research methods, including:  
33.704 Conduct of Inquiry in International Relations (3)  
33.715 Seminar on Advanced Research Design (3)  
Two other courses in social science methodology appropriate to the student's field of study and dissertation research, selected in consultation with and approved by the Director of Doctoral Studies.  
**Note:** Graduate level methodology courses taken at other universities may be counted in fulfilling this requirement only with permission of the Director of Doctoral Studies.
- **Doctoral level course preparation** in two other comprehensive examination fields. Students must take at least two other doctoral level (33.7xx) seminars. It is normally expected that students will take these seminars in the fields they intend to offer for the written comprehensive examinations. Other options for meeting this requirement must be made in consultation with and approved by the Director of Doctoral Studies.
- **Field requirements:** additional field requirements are described in the SIS program statements for major fields in International Politics (IP), Comparative and Regional Studies (CRS), United States Foreign Policy (USFP), International Communication (IC), and International Development (ID).
- **Research and writing requirement:** the research and writing requirement is met by registering for at least 12 hours of 33.799 Dissertation Supervision and by successful completion of the dissertation.



President Bill Clinton delivers a major address on the world economy at AU's Centennial Convocation, February 26, 1993.

# The School of Public Affairs

**Dean** Cornelius M. Kerwin

**Associate Dean for Academic Affairs**

Jenny G. McGough

**Assistant Dean for Administrative Services**

Elizabeth W. Lister

**Chair, Department of Government** W.M. LeoGrande

**Chair, Department of Justice, Law and Society**

R. Johnson

**Chair, Department of Public Administration** B.H. Ross

## **Full-Time Faculty**

**University Professor** R.J. Simon

**Professor** D. Aaronson, R.R. Bennett, R.P. Boynton, R.E. Cleary, E.H. DeLong (Dean Emeritus), J. Fishel, C.H. Goodman (Emeritus), M. Greenberg, S.W. Hammond, J.J. Hanus, R. Johnson, C.M. Kerwin, D.H. Koehler, L. Langbein, W.M. LeoGrande, H.E. McCurdy, M. Meadows (Emeritus), E.V. Mittlebeeler (Emeritus), R.A. Myren (Emeritus), A. Perlmutter, N.S. Preston (Emeritus), I. Robbins, E.S. Robinson (Emeritus), B.H. Ross, D.J. Saari, B.R. Schiller, M. Segal, L. Shelley, R.G. Smolka (Emeritus), J.A. Thurber, A.S. Trebach, E.C. Viano, M.P. Walker (Emeritus), R.I. Welner

**Associate Professor** B. Forst, A. Hyde, R.A. Lane, G.B. Lewis, H. Lieber, J.P. Lynch, P.L. Sykes, D.G. Zauderer

**Assistant Professor** D. Baer, E.A. Cook, C.A. Degregorio, D. Dreisbach, D.S. Fain, K. Farquhar, D. Golash, C. Hesselius, G. Ivers, S. Knack, B. Kozlak, T. Lea, I. Lorincz, C.J. Nelson, J. Nelson, S. Newman, R.G. Shaiko, D. Singerman, M.A. Weekes

**Research Professor** A.D. Biderman, C. Cooper, J. Trotter

**Distinguished Professor in Public Administration**  
D. Rosenbloom

**Distinguished Adjunct Professors in Residence**  
A. Alpern, J. Bond, M. Comarow, R. Fosen, B. Rosen

The School of Public Affairs is committed to education and research programs in the field of public affairs. An interest in public affairs reflects a concern for people and how they interact with government institutions and political systems. Students are able to pursue this interest through a comprehensive educational experience that includes classroom instruction, individual research, and practical professional training. Through its three departments—the Department of Government; Department of Justice, Law and Society; and the Department of Public Administration—the school provides a comprehensive and unified approach to the study of public affairs in the United States and around the world. Each program is designed to focus on specific career interests, including careers in government and not-for-profit organizations, but all are multidisciplinary, issue and policy oriented, and adapted to Washington's unique educational opportunities.

Washington is an ideal location for studying public affairs. As the site of national government and as a world capital, the city provides students with vivid evidence of the interrelationships of domestic and international politics. Students can observe first hand the political, economic, and environmental forces shaping public affairs and public policy. As an integral part of the curriculum, internships in private and public organizations lend a practical dimension to the academic programs and provide the opportunity to interact with policy makers. Washington's facilities for scholarly research and personal enrichment include such government institutions as the Library of Congress, the National Archives, and the Smithsonian Institution, as well as many departmental and agency libraries.

The School of Public Affairs, drawing on the facilities of the university, the Consortium of Universities of the Washington Metropolitan Area, and the Washington community, offers a unique combination of resources for study and practical experience in the field of public affairs. The school's comprehensive range of academic and professional programs leads to degrees at the bachelor's, master's, and doctoral levels.

### **The Faculty**

The school has more than 50 active full-time faculty members including both nationally recognized scholars and others distinguished by their public service. Augmenting the full-time faculty is an adjunct faculty of eminent government officials and public affairs practitioners who bring to the classroom the special insights acquired in their professional experience.

### **Internships and Cooperative Education Opportunities in Washington**

The school encourages qualified students to work for course credit as interns in governmental, political, and private organizations. These internships are designed to give students practical involvement in political processes or action programs. For example, a student might work for a member of Congress, the Department of State, the Department of Justice, or for other organizations directly concerned with public policy. Students may also participate in the Cooperative Education Program, which combines course credit and practical experience. (See the Cooperative Education Program section in this catalog.)

### **Independent Study Programs**

The School of Public Affairs encourages students to engage in independent study projects related to their fields of interest. These usually take the form of reading, research, and field work in the Washington area, arranged directly with a faculty member, for which course credit is given.

### **Career and Professional Opportunities**

A public affairs education prepares students for a variety of careers. Graduates serve public or private agencies where they assist in creating or implementing policy alternatives. Some teach public administration, political science, justice, and related courses at universities, colleges, or secondary schools. Others seek opportunities in private-sector professions not formally related to their degree programs. Alumni are serving as city managers, lawyers, management analysts, investigators, legislative assistants, lobbyists, budget or systems analysts, newspaper editors, research associates, professors, and government officials, appointed and elected.

### **Honorary Societies**

The school recognizes both academic and professional achievement by students and alumni through membership in national honorary societies. Pi Sigma Alpha, the national political science honor society, founded in 1920, is open to selected seniors and graduate students majoring in political science or international relations.

Alpha Phi Sigma is the national honor society for criminal justice. It recognizes scholastic excellence by undergraduate and graduate students in the justice field. Sigma Phi Omega, the university's prelaw honor society, is open to all qualified undergraduate students, sophomore and above.

Pi Alpha Alpha is the national honor society for public affairs and administration. The School of Public Affairs has one of the eighteen charter chapters. Graduate students completing their programs are invited to join if they meet the academic standards set by the chapter.

### **Undergraduate Study**

Undergraduate students may plan their academic programs to meet personalized learning objectives.

Recognizing that a multidisciplinary education is required to meet the ever changing nature of the public affairs profession, advisers often encourage students to take courses in other academic units.

### **Study Abroad**

The School of Public Affairs provides opportunities for study abroad, from the traditional Junior Year Abroad to special programs such as the London, Rome, Copenhagen, Brussels, Vienna, Paris, Madrid, Prague, Budapest, Santiago, Moscow, Buenos Aires, and Beijing semesters. In addition, the summer sessions include courses, workshops, and tours abroad which are relevant to the curriculums.

### **Graduate Study**

The graduate degree programs in the School of Public Affairs serve a number of diverse educational needs. Most master's programs educate students for specific professional careers in government and other nonprofit organizations at local and national levels. These programs emphasize managerial, analytical, and conceptual skills necessary for professional success in the public service. Others provide students with a general understanding of the academic disciplines related to public affairs. Doctoral programs are designed to prepare qualified individuals for professional appointments in teaching, scholarly research, and executive management and are offered in political science, public administration, and sociology: Justice.

### **Unique Educational Resources**

Computer-aided instruction and research is encouraged and facilitated by a variety of technical resources. The university operates quantitative teaching and research laboratories to introduce students to the use of computers, statistics, and mathematical methods in social research and management applications. These labs are staffed with graduate assistants who tutor new users and provide professional consulting to experienced users.

Through the labs, students have access to personal computers and to the mainframe computer operated by the university. Software is provided for the personal computers for word processing, spreadsheets, graphics, statistics, mathematical modeling, and computer programming applications. An extensive selection of programs and languages is available on the mainframe for social science applications, including the Statistical Package for the Social Sciences (SPSS) and the Statistical Analysis System (SAS). As a member institution of the Inter-University Consortium for Political and Social Research, the school has access to thousands of social science data sets and maintains hundreds of these on tape at the university.

### **The Center for Congressional and Presidential Studies**

Founded in 1980, the Center for Congressional and Presidential Studies has become the focus of research and training in the Department of Government. A unique institution, the center brings together scholars, students, public officials, journalists, and leaders in public and pri-

vate organizations to study Congress and the presidency through scholarly forums, colloquiums, and seminars on current topics.

The center's many activities provide an opportunity for graduate students to work on research projects, assist with publications, and gain valuable practical and scholarly experience in the process.

### **The Campaign Management Institute**

This innovative institute was designed by the school's faculty, together with leading Democratic and Republican political managers and campaign consultants to serve as a foundation for graduate students, campaign workers, political activists, and legislative staffers interested in campaign management. The institute's intensive program covers campaign organization, strategy, research, fund raising, polling, paid media, earned media, general management, targeting, campaign law and ethics, computer technology, and get-out-the-vote.

Through this program, many students have found placement in national, state, and local campaigns as well as in survey research and campaign management firms.

### **The Lobbying Institute**

Modeled on the Campaign Management Institute, the Lobbying Institute provides students with an intensive exploration into the art and craft of the lobbying profession. The two-week format allows students to become totally immersed in the strategies and tactics of organized interests attempting to influence the federal policymaking process. In addition to the applied aspects of the lobbying profession, the art and craft of lobbying is placed in a more theoretical perspective by linking the real world of political influence with the issues of democratic political representation.

## **Government**

**Chair** William M. LeoGrande

**Academic Advisers** Athena Argyropoulos,  
Robert Briggs, Anne Kaiser

### **Full-Time Faculty**

**Professor** J. Fishel, M. Greenberg, S.W. Hammond,  
J.J. Hanus, W.M. LeoGrande, M. Meadows (Emeritus),  
A. Perlmutter, J.A. Thurber, M.P. Walker (Emeritus)

**Associate Professor** R.A. Lane, P.L. Sykes

**Assistant Professor** D. Baer, E.A. Cook,  
C.A. Degregorio, G. Ivers, C. Hennessey, B. Kozlak,  
I. Lorincz, C.J. Nelson, S. Newman, R.G. Shalko,  
D. Singerman,

**Distinguished Adjunct Professor in Residence**  
J. Bond

The Department of Government makes use of the special opportunities available to it from its location in the nation's capital for the teaching and study of political science and public affairs.

The department's undergraduate program focuses on government and public affairs as an aspect of a broad liberal arts education. It prepares the student for an en-

lightened role in national, community, and world affairs. This program can lead to a career in public affairs or any private or not-for-profit area that deals with the growing interrelationship between the public and private sectors. It also provides a solid and comprehensive foundation for the student who plans to pursue further education before entering a career in politics or public affairs, governmental administration, law, teaching, or research.

The graduate program is designed to prepare students for academic or professional careers in public affairs or policy analysis. The master's and doctoral programs in political science are flexible in order to meet the educational needs of a diverse student population.

## **B.A. in Political Science**

### **Admission to the Program**

New freshmen and transfer students are admitted through the university's Office of Admissions. Students currently enrolled in the university who wish to transfer into the Department of Government or develop a double major or minor should have a grade point average of 2.00 or higher and the approval of the undergraduate academic adviser.

### **University Requirements**

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### **General Education Requirements**

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### **Major Requirements**

- A total of 54 credit hours with grades of C or better

### **Course Requirements**

- 53.110 Politics in the United States /S 4:1 (3-4)  
or  
53.120 Introduction to American Politics /S (3-4)
- One of the following:  
53.105 Individual Freedom vs. Authority /A 2:1 (3)  
53.303 Ancient Political Thought (3)  
53.305 Modern Political Thought (3)  
53.306 American Political Thought (3)
- One of the following:  
53.130 Comparative Politics /S 3:1 (3)  
53.231 Third World Politics /S (3)  
53.232 Politics of Industrial Societies (3)
- One of the following:  
33.105 World Politics /S 3:1 (3)  
33.110 Beyond Sovereignty /S 3:1 (3)  
33.381 Foreign Policies of the Great Powers (3)  
33.382 The Analysis of United States Foreign Policy (3)

## 206 The School of Public Affairs

- Three hours of social science research methods or any approved statistics course
- Twenty-one credit hours at the .200 or .300 level  
No more than 9 hours (with a maximum of 8 hours in any one area of concentration) of the following may be applied to the .200-.300 level requirements: internships, cooperative education, independent study, independent reading, Washington Semester programs, and American University study abroad programs.
- Six credit hours at the .400 or .500 level
- Twelve credit hours to be distributed over two of the following cognate disciplines above the Introductory level: economics, history, international relations or foreign policy, sociology and specified courses in American studies, anthropology, communication, justice, philosophy, and psychology

*Note:* Political science majors may count up to three courses offered by the School of International Service (in addition to 33.105 World Politics 3:1, 33.381 Foreign Policies of the Great Powers, or 33.382 The Analysis of United States Foreign Policy) as part of the major and related course requirements. Students using two School of International Service courses under the major are limited to one School of International Service course under related course requirements.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Interdisciplinary Studies: Communication, Legal Institutions, Economics, and Government (CLEG)

### Admission to the Program

This interdisciplinary major is designed for students who want a breadth of background necessary to participate effectively in decision making for public affairs and the practical training necessary to deal with social problems as public issues. Admission requires a grade point average of 2.00 (on a 4.00 scale) and approval by the undergraduate academic adviser. All arrangements for the major should be made no later than the first semester of the junior year.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 57 credit hours with grades of C or better

### Course Requirements

- 17.200 Writing for Mass Communication (3)
- 17.310 Public Speaking (3)
- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 53.110 Politics in the United States /S 4:1 (3-4) or  
53.120 Introduction to American Politics /S (3-4)
- 53.391 Internship (3-6)
- 53.490 Independent Study Project in Government (3) or  
53.489 CLEG Seminar (3)
- 73.104 Introduction to Systems of Justice /S (3)
- One of the following:  
53.105 Individual Freedom vs. Authority /A 2:1 (3)  
53.303 Ancient Political Thought (3)  
53.305 Modern Political Thought (3)  
53.306 American Political Thought (3)
- One of the following:  
53.215 Civil Rights and Liberties /S 4:2 (3)  
53.350 Constitutional Law I: Powers and Federalism (3)  
53.352 Law and the Political System /S (3)
- Twenty-four additional credit hours, including twelve hours at the 300 level or above, selected from a list of approved courses in communication (17.xxx), legal institutions (73.xxx), economics (19.xxx), and government (53.xxx). The list of approved courses is available in the Department of Government office. Students must choose these 24 additional hours so that their total program includes 9 hours from each CLEG area.

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Environmental Studies

The B.A. in Environmental Studies is an interdisciplinary program of studies designed to provide a basic understanding of the scientific and social processes that shape our environment. Each student follows one of two



tracks, in Environmental Science or Environmental Policy. Both tracks provide a solid foundation based on the natural sciences as well as the social sciences, through coursework spanning many disciplines, including courses in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs. For a description of this program, see the Interdisciplinary Degree Programs chapter in this catalog.

## Washington Semester in American Politics

### Admission to the Program

This special one semester program draws on the unique environment of Washington, D.C. to offer students a full program of seminars with decision makers and others involved in the policy process, an internship in a governmental office or with an interest group, and either a research project or a course elected from regular university offerings. The program is open to students of the American University and students from institutions across the country.

Requirements for admission to the program are: (1) nomination by a Washington Semester faculty representative; (2) a minimum grade point average of 2.50 (on a 4.00 scale); (3) at least one course in American national government or equivalent; and (4) at least second-semester sophomore standing at the time of participation. Selection is competitive.

This program does not lead to a degree, but students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

### Requirements

- 53.410 Washington Semester in American Government and Politics Seminar I (4)
- 53.411 Washington Semester in American Government and Politics Seminar II (4)
- 53.412 Washington Semester in American Government and Politics Research Project (4)  
or  
a regular American University course from the evening offerings may be substituted for the research project
- 53.416 Washington Semester in American Government and Politics Internship (4)

## Minor in Political Science

The minor in Political Science is intended for those who prefer to pursue another major but wish to increase their knowledge of an area of activity that is a part of our lives at every turn. Through this minor the student has a greater potential to achieve enlightened citizenship.

### Requirements

- 53.110 Politics in the United States /S 4:1 (3-4)  
or  
53.120 Introduction to American Politics /S (3-4)
- Three credit hours in political theory at the 200/300 level

- Fifteen credit hours in other Department of Government (53.xxx) courses, including at least 9 credit hours at the 300 level and at least 3 credit hours at the 400/500 level

## Combined B.A./M.A. Program in Political Science

### Admission to the Program

This program enables qualified undergraduates to earn, in a continuous plan of five years of study, both a bachelor's degree with a major in any related discipline and a master's degree in political science. This is accomplished by allowing certain specified graduate level courses to be applied to the requirements of both degrees.

Admission to the combined B.A./M.A. program requires junior standing, a cumulative grade point average of 3.00 (on a 4.00 scale), a completed application form (available from the Department of Government), a written faculty recommendation, an essay on the student's interests and abilities in political science and an interview with the Department of Government chair.

Acceptance and participation in the B.A./M.A. program does not automatically guarantee acceptance into the graduate program. Students must apply for admission to the graduate program through the Office of Admissions according to its deadlines, but no later than the last undergraduate semester. The Graduate Record Examination (GRE) is required for admission to the M.A. program.

### Course Requirements

During their senior year, students accepted into the B.A./M.A. program register for 6 credits specified by the Department of Government as applicable to both the B.A. and M.A. degrees. These credits must be at the .500 or .600 level to qualify as graduate credits. Consult with the Department of Government graduate adviser on appropriate course choices.

Recommended preparatory courses for the combined B.A./M.A. program include courses in political science and statistics.

## M.A. in Political Science

### Admission to the Program

In addition to meeting the minimum university requirements for graduate study, applicants must earn a satisfactory score on the Graduate Record Examination. All applicants are evaluated on the basis of scholastic achievement in their last 60 credit hours of undergraduate work, two letters of recommendation and an essay on career interest. Applicants who wish to be considered for departmental honor awards must apply for full-time status.

### Degree and Major Requirements

- A total of 33 credit hours of approved graduate work
- A written four hour comprehensive examination in the major field

### Fields

American Politics and Comparative Politics

## Course Requirements

### *American Politics Field*

- 53.610 Introduction to Quantitative Methods in Political Science (3)
- 53.611 Political Research (3)
- 53.650 Political Analysis (3)

Fifteen credit hours in American Politics:

Students should select up to five courses in this area in order to prepare for the comprehensive examination. Courses may be selected from either the 500 or 600 level.

Required:

- 53.651 The Legislative Process (3)  
(another course on Congress may be substituted with permission of the student's adviser)
- 53.652 The Presidency and the Executive Branch (3)
- One course on public opinion, political behavior, elections, parties and interest groups, or the Campaign Management Institute (CMI) (3)

Second field includes:

- Nine credit hours selected from a variety of areas in political science or from other disciplines

### *Comparative Politics Field*

- 53.610 Introduction to Quantitative Methods in Political Science (3)
- 53.611 Political Research (3)
- 53.650 Political Analysis (3)
- One political theory course (3)

Major field includes 6 credit hours from the following:

- 53.630 Comparative Politics of Developed Nations (3)
- 53.631 Comparative Politics of Developing Nations (3)
- Six additional hours drawn from the comparative cross national and regional studies offerings in the School of Public Affairs and the School of International Service

Second field includes:

- Three courses (9 credit hours) in a logically related area in political science or from other disciplines in the university  
An internship may be substituted for up to 3 hours of the second-field courses. If the internship option is selected, students must register for 53.692 Cooperative Education Field Experience (3).

## Ph.D. in Political Science

### Admission to the Program

Applicants are considered and admitted only for the fall semester each year. February 1 is the deadline for application for admission. All applicants must submit scores from the verbal and quantitative sections of the Graduate Record Examination. The normal minimum for consideration is a grade point average of 3.20 (on a 4.00 scale) in all previous academic work. Preference will be given to

applicants for full-time study, although highly qualified students may be admitted for part-time study.

### Major Fields

American Politics, Comparative Politics, Policy Analysis, Public Administration, and Justice, Law and Society

### Degree and Major Requirements

- A total of 72 credit hours of approved graduate work is required for students entering the program with a bachelor's degree; a minimum of 48 credit hours is required of students who have completed an approved master's degree.
- Advancement to candidacy is accomplished by successfully completing a written qualifying examination at the end of the second semester of study.
- Students take written comprehensive examinations in American Politics and one of the remaining major areas. They master the subject matter of the third through formal course work. Following completion of the written examinations, all students take an oral examination on their entire program of study before a committee of faculty members.

The remaining major areas include Comparative Politics, Public Administration, Policy Analysis, Justice, Law and Society, and any Ph.D. field in the School of International Service (except Comparative and Regional Studies) with the approval of the SPA Director of Doctoral Programs.

Two of the three major areas must be offered by the School of Public Affairs. As long as this requirement is satisfied, students seeking the Ph.D. in political science may include as a comprehensive or non-comprehensive area any Ph.D. field offered by any other teaching unit at American University, subject to the approval of the SPA Director of Doctoral Programs.

- The Ph.D. is fundamentally a research degree. Understanding scientific inquiry and correctly using research techniques require extensive preparation. The faculty has designed three courses to help doctoral students comprehend the nature of science and master tools of research. All students in the program take these courses:  
53.612 Conduct of Inquiry I (3)  
53.613 Conduct of Inquiry II (3)  
53.614 Research in Political and Administrative Behavior (3)

Each student selects a research specialization in which he or she will complete an original project under the direction of program faculty and write a dissertation. Students may choose research projects within one of the major areas or they may select a research specialization from one of the other graduate fields within the school.

Each student prepares a research proposal for the dissertation project. It is the responsibility of the student to secure the agreement of a School of Public Affairs full-time tenured or tenure-track faculty member to serve as the chair of his or her dissertation committee. One of the two other members of the committee may be from outside SPA. As part of this process, each student must publicly defend the research pro-

posal before the dissertation committee and other interested faculty.

The committee and the SPA Director of Doctoral Programs (acting for the dean) must approve the defense and the research proposal. The topic covered by the proposal must be related to ongoing research or publications of the supervising faculty.

As work on the dissertation project progresses, each student registers for a total of 6–12 credit hours of directed study. Substantive course work may be used as part of this requirement where it contributes directly to the research specialization and is specifically recommended by the dissertation chair.

Upon completion of the research and the written dissertation, the candidate submits his or her manuscript to the dissertation committee for review. If the committee members approve the manuscript, the candidate must complete an oral defense of the dissertation and the general field in which it lies before the committee and other interested faculty. The committee determines conclusively at this point whether the dissertation and examination are acceptable.

The dissertation must consist of high quality original research directly relevant to the student's doctoral program. A dissertation proposal may be rejected for the following reasons: the topic does not address a major research issue in political science or public administration, the research design is inadequate, the methodology is inappropriate, or because no full-time tenured or tenure-track faculty member in the School of Public Affairs is academically competent or available to supervise the project. If the candidate fails to maintain satisfactory progress toward completion of the dissertation, his or her candidacy may be terminated.

## Course Requirements

Major Field in American Politics:

- 53.710 Seminar in American Politics (3)

Other Major Fields:

- Three proseminars:  
53.720 Seminar in Policy Analysis (3)  
53.730 Seminar in Comparative Politics (3)  
54.710 Seminar in Public Administration (3)  
73.710 Seminar in Justice, Law and Society (3)

*Note:* Students entering the Ph.D. program with a master's degree in political science or public administration may petition the SPA Director of Doctoral Programs to take only two of the required proseminars.

For all fields:

- Two additional courses in each of the two written comprehensive areas (some areas may require three courses beyond the pro-seminar, rather than two)
- An additional course in the non-comprehensive area
- Four courses in research design and methodology:  
53.612 Conduct of Inquiry I (3)  
53.613 Conduct of Inquiry II (3)  
53.614 Research in Political and Administrative Behavior (3)  
53.704 Approaches to Political Understanding (3)

- Remaining 8–12 credit hours on the dissertation and, for those entering the program with a bachelor's degree, additional graduate level courses

## Justice, Law and Society

**Chair** Robert Johnson

**Academic Advisers** Linda Spicer, Margaret Stanton

### Full-Time Faculty

**University Professor** R.J. Simon

**Professor** D. Aaronson, R.R. Bennett, R. Johnson, I. Robbins, D.J. Saari, L.I. Shelley, A.S. Trebach, E.C. Viano, R.I. Weiner

**Associate Professor** B. Forst, J.P. Lynch

**Assistant Professor** D. Dreisbach, D.S. Fain, D. Golash, T. Lea, J. Nelson, M.A. Weekes

**Research Professor** A.D. Biderman, C. Cooper, J. Trotter

**Distinguished Adjunct Professor in Residence** R. Fosen

The Department of Justice, Law and Society (DJLS) has one of the oldest programs in the field of justice in the United States. There are currently 16 full-time faculty in the department with educational backgrounds in law, criminology, criminal justice, philosophy, economics, political science, sociology, and social work. The department offers two Bachelor of Arts degrees, in Justice and in Law and Society; a Master of Science degree in Justice, Law and Society; a Ph.D. in Sociology: Justice; a Justice, Law and Society doctoral field in the Ph.D. programs in Public Administration and in Political Science; and a joint Juris Doctor and Master of Science program in Law and Justice.

The B.A. in Justice analyzes the foundations, functions, policies and procedures of justice. Crime and deviance are major policy concerns in American society, and systems of justice are the major public policy response for dealing with these problems. Cross cultural and international perspectives are brought to bear when they shed light on the nature of crime and deviance in America or on the workings of American systems of justice. The B.A. in Law and Society is an interdisciplinary program that examines the role of law as it permeates social, political, and economic institutions. The complex relation of law and justice, broadly conceived, is the central consideration in this program of study. Drawing on the social sciences and humanities, this curriculum offers an historical and international perspective on legal issues. Both undergraduate majors can be considered prelaw majors.

The M.S. in Justice, Law and Society merges the central concerns of the undergraduate degrees offered in DJLS. The M.S. degree examines problems of justice from the vantage point of two concentrations: Justice and Public Policy, and Law and Society. The M.S. in Justice, Law and Society serves as both a terminal degree and a pre-doctoral degree. Students who wish to pursue careers in justice or related agencies will find the public policy thrust of the

## 210 The School of Public Affairs

program to be of most immediate interest, but courses offered in the Law and Society concentration, which bear directly or indirectly on the justice system, will be germane to them as well. Conversely, students with a primary interest in advanced graduate work studying the general and theoretical ramifications of law and society will find it helpful to be grounded in the practical considerations raised by the Justice and Public Policy concentration. In both areas of concentration, there will be an emphasis on understanding, evaluating, and, where appropriate, conducting research. Graduates who go on for doctoral or professional study will be equipped to pursue rigorous graduate work in programs that emphasize Justice or Law and Society, as well as in programs that merge these concerns.

The department's programs prepare students for law school and further graduate study, as well as for entry-level positions and professional careers in the justice field. Washington, D.C. provides a constant source of cooperative education and internship placements, which often point the way to challenging employment.

## B.A. in Justice

### Admission to the Program

New freshman and transfer students are admitted through the Office of Admissions. Current students in good academic standing who wish to transfer into the department or develop a double major may do so through a formal declaration of major.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 48 credit hours with grades of C or better

### Course Requirements

Twenty-one credit hours from the following courses:

- 73.100 Justice in America /S 4:1 (3)  
or  
73.104 Introduction to Systems of Justice /S (3)
- 73.103 Critical Issues in Justice /S (3)
- 73.205 History and Philosophy of  
Criminology /A, S (3)
- 73.220 Cities and Crime /S 2:2 (3)  
or  
73.206 Justice and Deviant Behavior (3)
- 73.307 Justice, Law, and the Constitution /A, S (3)

- 73.309 Justice and Public Policy (3)
- 73.380 Introduction to Justice Research (3)  
(prerequisite: 42.202 Basic Statistics)
- Twenty-seven credit hours must be completed from the following courses:

One course (3 credit hours) must be completed from each of the four cluster areas: Justice, Criminology and Deviance; Justice and Legal Process; Justice, Law Enforcement and Public Policy; and Justice, Corrections and Punishment (12 credit hours total).

The remaining 15 credit hours may be selected from any one or more of the clusters. No more than 9 credit hours (with a maximum of 6 hours in any one area of concentration) of internships, cooperative education placements, independent study, independent reading, Washington Semester or American University study abroad programs may be applied to this requirement. *Note:* At least 15 of the 24 credit hours must be at the .300 level or above.

#### *Justice, Criminology and Deviance*

- 73.206 Justice and Deviant Behavior (3)
- 73.215 Violence and Institutions /S 4:2 (3)
- 73.253 Juvenile Delinquency: Causes, Prevention and Treatment (3)
- 73.303 Drugs, Alcohol and Society (3)
- 73.401 Criminal Behavior: A Psychosocial Analysis (3)
- 73.517 Victimology (3)
- 73.551 Comparative Justice Studies Abroad (3)

#### *Justice and Legal Process*

- 73.110 Western Legal Tradition /S 2:1 (3)
- 73.225 American Legal Culture /S 2:2 (3)
- 73.311 Introduction to Forensic Science (3)
- 73.342 Judicial Administration (3)
- 73.352 Psychiatry and the Law (3)
- 73.382 Determination of Fact (3)
- 73.420 Legal Reasoning (3)
- 73.458 The Juvenile and the Law (3)
- 73.501 The Concept of Justice (3)
- 73.502 The Concept of Law (3)

#### *Justice, Law Enforcement and Public Policy*

- 73.210 Policing in America: An Introductory Survey (3)
- 73.211 Contemporary Issues in American Law Enforcement (3)
- 73.313 Organized Crime (3)
- 73.315 White-Collar and Commercial Crime (3)
- 73.550 Drugs, Crime, and Public Policy (3)

#### *Justice, Corrections and Punishment*

- 73.200 Deprivation of Liberty /S 4:2 (3)
- 73.230 Corrections in America (3)
- 73.332 Corrections and the Constitution (3)
- 73.403 Concepts of Punishment (3)
- 73.431 The Prison Community (3)

### University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-

level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## B.A. in Law and Society

### Admission to the Program

New freshman and transfer students are admitted through the Office of Admissions. Current students in good academic standing who wish to transfer into the department or develop a double major may do so through a formal declaration of major.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 48 credit hours with grades of C or better

### Course Requirements

Twenty-one credit hours from the following courses:

- 19.100 Macroeconomics /S 4:1 (3)
- 73.103 Critical Issues in Justice /S (3)
- 73.110 Western Legal Tradition /S 2:1 (3)  
or  
53.245 Introduction to the Study of Law (3)
- 73.225 American Legal Culture /S 2:2 (3)  
or  
73.310 The Legal Profession (3)
- 73.307 Justice, Law, and the Constitution /A,S (3)
- 73.380 Introduction to Justice Research (3)  
(prerequisite: 42.202 Basic Statistics)
- 73.402 Comparative Systems of Law and Justice (3)
- Twenty-seven credit hours must be completed from the following courses:

One course (3 credit hours) must be completed from each of the five cluster areas: Law and the Justice System; Sociology and Anthropology; Political Science/Government; Economics; and Psychology (15 credit hours total)

The remaining 12 credit hours may be selected from any one or more of the clusters. No more than 9 credit hours (with a maximum of 6 hours in any one area of concentration) of internships, cooperative education placements, independent study, independent reading,

Washington Semester or American University study abroad programs may be applied to this requirement.

**Note:** At least 15 of the 24 credit hours must be at the .300 level or above.

### Law and the Justice System

- 33.322 Human Rights (3)
- 53.245 Introduction to the Study of Law (3) (if not taken for requirement above)
- 53.321 Congress and Legislative Behavior (3)
- 73.100 Justice in America /S 4:1 (3)
- 73.200 Deprivation of Liberty /S 4:2 (3)
- 73.308 Justice, Morality, and the Law (3)
- 73.309 Justice and Public Policy (3)
- 73.310 The Legal Profession (3) (if not taken for requirement above)
- 73.342 Judicial Administration (3)
- 73.343 Issues in Civil Justice (3)
- 73.382 Determination of Fact (3)
- 73.420 Legal Reasoning (3)
- 73.504 Comparative Criminology and Criminal Justice (3)
- 73.541 Law in Authoritarian Societies (3)
- 73.551 Comparative Justice Studies Abroad (3-6)

### Sociology and Anthropology

- 03.215 Sex, Gender, and Culture /S 3:2 (3)
- 03.336 Social Structure (3)
- 03.431 Taboos (3)
- 65.301 Social Problems (3)
- 65.303 Deviance and Social Control (3)
- 65.332 Law and Society (3)
- 65.351 Race and Ethnic Relations (3)
- 73.220 Cities and Crime /A 2:2 (3)
- 73.303 Drugs, Alcohol, and Society (3)
- 73.404 Gender and the Law (3)
- 73.454 Violence in America (3)
- 73.517 Victimology (3)

### Political Science / Government

- 33.321 International Law (3)
- 53.215 Civil Rights and Liberties /S 4:2 (3)
- 53.305 Modern Political Thought (3)
- 53.321 Congress and Legislative Behavior (3)
- 53.335 Democratization, Participation, and Social Movements (3)
- 53.350 Constitutional Law I: Powers and Federalism (3)
- 53.352 Law and the Political System (3)
- 54.345 The Law of Public Administration (3)
- 60.221 Philosophy, Politics, and Society (3)
- 73.463 Free Press and the Administration of Justice (3)

### Economics

- 14.201 Business Law (3)
- 19.200 Microeconomics /S 4:2 (3)
- 19.302 Comparative Economic Systems (3)
- 19.309 Public Economics (3)
- 19.317 Political Economy (3)
- 19.320 History of Economic Ideas (3)
- 19.325 Social Choice and Economic Justice (3)
- 73.412 Law and the Corporate World (3)
- 73.513 Law and Economics (3)

### *Psychology*

- 57.205 Social Psychology /S 4:2 (3)
- 57.215 Abnormal Psychology and Society /S 4:2 (3)
- 57.240 Drugs and Behavior /N 5:2 (3)
- 73.215 Violence and Institutions /S 4:2 (3)
- 73.301 Drugs, Consciousness and Human Fulfillment (3)
- 73.333 Law, Psychology, and Justice (3)
- 73.352 Psychiatry and the Law (3)

### **University Honors Program**

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## **Washington Semester in Justice**

### **Admission to the Program**

This special one semester program draws on the unique environment of Washington, D.C. to provide students with a realistic picture of the processes of the criminal justice system; the interrelationships of the institutions operating in that system; the problems of civil justice systems; and local, national, and international levels of the justice system. This is accomplished through seminars, internships, and independent research projects. The program is open to students of the American University and students of affiliated institutions across the country. Students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

### **Requirements**

Requirements for admission to the program are: (1) a major in justice or a related social science; (2) nomination by two Washington Semester faculty representatives; (3) a minimum 2.50 grade point average (on a 4.00 scale); and (4) at least second-semester sophomore standing at the time of participation.

### **Course Requirements**

- 73.490 Independent Study Project in Justice (4)  
or  
a regular American University course may be substituted for the study project
- 73.491 Internship in a Justice Setting (4)
- 73.492 Washington Justice Seminar I: A National and Intergovernmental Perspective (4)
- 73.493 Washington Justice Seminar II: A National and Intergovernmental Perspective (4)

### **Special Opportunities**

Internships, discussions with justice officials at all levels of government, and field trips to justice agencies.

## **Minor in Justice**

### **Requirements**

- 73.103 Critical Issues in Justice /S (3)
- 73.104 Introduction to Systems of Justice /S (3)
- Twelve credit hours in Justice at the 300 level or above. No more than 6 credit hours may be taken from any one cluster: Justice, Criminology and Deviance; Justice and Legal Process; Justice, Law Enforcement and Public Policy; and Justice, Corrections and Punishment (see Justice major course requirements, above).

## **Combined B.A./M.S. Program in Justice, Law and Society**

### **Admission to the Program**

This program enables students to complete the B.A. and the M.S. in five years. Undergraduate students with majors in justice or related disciplines at the American University apply to this program through the Office of Graduate Affairs and Admissions according to its deadlines, but no later than the last undergraduate semester. Admissions decisions are based on the normal M.S. standards and procedures of the school.

### **Course Requirements**

- All requirements for the B.A. in Justice, B.A. in Law and Society, or related discipline at the American University
- All requirements for the M.S. in Justice, Law and Society

Students may use up to 6 credit hours of course work in justice at the 500 level or above to satisfy the requirements for both degrees.

## **M.S. in Justice, Law and Society**

### **Admission to the Program**

In addition to meeting the minimum university requirements for graduate study, applicants must submit Graduate Record Examination test scores. A background of relevant undergraduate preparation in the social, behavioral, and administrative or managerial sciences is preferred, but not absolutely required. All applicants are evaluated on the basis of scholastic achievement in their last 60 credit hours of undergraduate work, test scores and two letters of recommendation.

### **Degree and Major Requirements**

- A total of 33 credit hours of approved graduate work
- One three hour written comprehensive examination covering both of the two concentration areas, Justice and Public Policy, and Law and Society
- Two research courses are required in lieu of a thesis. (Prerequisite: a course in basic statistics or proficiency examination equivalent.)

### **Concentrations**

Justice and Public Policy; Law and Society

## Course Requirements

- 73.610 Survey In Justice and Public Policy (3)
- 73.611 Survey In Law and Society (3)
- 73.680 Introduction to Justice Research I (3)  
(Prerequisite: 42.202 Basic Statistics)
- 73.681 Introduction to Justice Research II (3)
- Three courses (9 credit hours) selected from each of the two concentrations (18 credit hours total)

### *Justice and Public Policy*

- 53.606 Foundations of Policy Analysis (3)
- 54.610 Public Management (3)
- 73.501 Concept of Justice (3)
- 73.517 Victimology (3)
- 73.550 Drugs, Crime, and Public Policy (3)
- 73.551 Comparative Justice Studies Abroad (3)
- 73.604 Theoretical Issues in Crime and Justice (3)
- 73.608 The Constitution and Criminal Procedure (3)
- 73.643 Advanced Seminar in Policing (3)
- 73.663 Advanced Seminar in Courts (3)
- 73.686 Advanced Seminar in Corrections (3)
- 73.687 Law, Deviance, and the Mental Health System (3)

### *Law and Society*

- 29.651 Era of the Revolution and Constitution (3)
- 33.520 Survey of International Law and Organization (3)
- 33.621 International Law and the Legal Order (3)
- 39.600 Theories of Justice (Washington College of Law)
- 53.674 Constitutional Law and Politics (3)
- 60.525 Seminar on Modern Moral Problems (3)
- 60.641 Philosophy of the Social Sciences (3)
- 73.502 The Concept of Law (3)
- 73.504 Comparative Criminology and Justice (3)
- 73.513 Law and Economics (3)
- 73.541 Law and Authoritarian Societies (3)
- 73.551 Comparative Justice Studies Abroad (3)
- 73.613 Law and Anthropology (3)
- 73.614 Law and Behavioral Sciences (3)
- 73.615 Law and Human Rights (3)
- 73.644 Law and Social Control (3)
- Elective: 3 credit hours from any additional course in either concentration or from the following:
  - 73.551 Comparative Justice Studies Abroad (3)
  - 73.690 Independent Study Project in Justice (3)
  - 73.691 Internship in a Justice Setting (3)
  - 73.692 Cooperative Education Field Experience (3)

Note: A total of 6 credit hours from 73.551 Comparative Justice Studies Abroad made be used toward the degree: 3 credits in the Justice and Public Policy concentration, and 3 credits for the elective.

## J.D./M.S. in Law and Justice

### Admission to the Program

The program enables students to complete the J.D. and M.S. degrees in approximately four years. Students must apply to and be accepted by both the Washington College of Law and the Department of Justice, Law and Society.

Admission to either the M.S. or J.D. program in no way implies that admission to both programs will necessarily be granted.

Students may apply to both programs simultaneously or begin either program separately and then apply to the other program. However, once the study of law has begun, no justice courses can be taken until one full year of full-time law study has been completed.

Admission criteria are the same as those for the master's program in Justice, Law and Society. If application is made initially to the Washington College of Law (WCL), LSAT scores are accepted in place of GRE general scores and application materials submitted to the WCL are reviewed for admission to the Department of Justice, Law and Society.

### Requirements

- All requirements for the Juris Doctor in the Washington College of Law
- All requirements for the Master of Science in Justice, Law and Society in the Department of Justice, Law and Society

Students may apply 6 credit hours of justice courses to the J.D. degree and 6 credit hours of law courses to the M.S. degree in Justice. The law adviser must approve the justice courses and the justice adviser must approve the law courses in advance of taking the courses to be applied toward both degrees.

## Ph.D. in Sociology: Justice

### Admission to the Program

Admission to the Ph.D. program in Sociology with a specialization in Justice is determined jointly by appointed representatives from the Department of Sociology and the Department of Justice, Law and Society.

To apply for admission to this program, students supply letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study, and submit Graduate Record Examination scores.

A minimum of 72 hours of approved graduate work is required for the Ph.D. in the program. Normally these 72 hours consist of 60 hours of course work and 12 hours of directed study on the dissertation. The dissertation committee is chaired by a member of the Department of Justice, Law and Society.

Four comprehensive examinations are required: sociological theory, methods of social research, a field of concentration approved by the Department of Sociology, and the field of Justice, Law and Society, administered by the Department of Justice, Law and Society. At least one of the examinations must be taken orally; however, it is strongly recommended that the justice comprehensive examination be written.

For more information about the Ph.D. in Sociology: Justice, see the Department of Sociology section in this catalog.

## Ph.D. Field in Justice, Law and Society

Students admitted to the Ph.D. in Public Administration or the Ph.D. in Political Science programs may choose a field in Justice, Law, and Society as one of their fields of study.

### Course Requirements

- 73.710 Seminar in Justice, Law and Society (3)
- Two or three additional courses from the following:  
53.674 Constitutional Law and Politics (3)  
73.608 The Constitution and Criminal Procedure (3)  
73.614 Law and the Behavioral Sciences (3)  
73.615 Law and Human Rights (3)  
73.643 Advanced Seminar in Policing (3)  
73.644 Law and Social Control (3)  
73.663 Advanced Seminar in Courts (3)  
73.687 Law, Deviance, and the Mental Health System (3)  
73.690 Independent Study Project in Justice (3)

For more information about the Ph.D. in Political Science, see the Department of Government section in this chapter. For more information about the Ph.D. in Public Administration, see the Department of Public Administration section in this chapter.

## Public Administration

**Chair** Bernard H. Ross

**Academic Advisors** Nina Allen, Brenda Manley

### Full-Time Faculty

**Professor** R.P. Boynton, R.E. Cleary, C.M. Kerwin, D.H. Koehler, L. Langbein, H. McCurdy, B.H. Ross, B.R. Schuller, M. Segal

**Associate Professor** A. Hyde, G.B. Lewis, H. Lieber, D. Zauderer

**Assistant Professor** K. Farquhar, S. Knack,

**Distinguished Professor of Public Administration**  
D. Rosenbloom

**Distinguished Adjunct Professors in Residence**  
A. Alpern, M. Comarow, B. Rosen

The Department of Public Administration makes use of the special opportunities available to it from its location in the nation's capital for the teaching and study of public administration.

The graduate programs are designed to prepare students for academic or professional careers in public affairs or policy analysis. The master's and doctoral programs in public administration are flexible in order to meet the educational needs of a diverse student population.

## Minor in Public Administration

The minor in Public Administration is designed for students interested in pursuing careers in the public or not-for-profit sector. It allows students to major in the social

sciences or humanities while specializing in an academic area that is more career focused. Students interested in this minor are required to take three designated courses plus four electives for a total of 21 credit hours.

### Requirements

- 53.110 Politics in the United States /S 4:1 (3-4)  
or  
53.120 Introduction to American Politics /S (3-4)
- 54.260 Administrative Politics /S (3)
- 54.343 Governmental Management (3)
- Twelve additional hours from the following:  
10.353 Principles of Organizational Theory, Behavior, and Management (3)  
53.240 Metropolitan Politics /S (3)  
53.560 Intergovernmental Relations (3)  
54.345 The Law of Public Administration (3)  
Courses related to the field of public administration in the 53.xxx series with the approval of the public administration chair.

## Combined B.A./M.P.A. Program in Public Administration

### Admission to the Program

This program enables qualified undergraduates to earn, in a continuous plan of five years of study, both a bachelor's degree with a major in any related discipline and a master's degree in public administration. This is accomplished by allowing 12 credit hours of certain specified graduate level courses to be applied to the requirements of both degrees.

Admission to the combined B.A./M.P.A. program requires junior standing, a cumulative grade point average of 3.00 (on a 4.00 scale), a completed application form (available from the Department of Public Administration), a written faculty recommendation, an essay on the student's interests and abilities in public administration, and an interview with the Department of Public Administration chair.

### Course Requirements (Senior Year)

- The course requirements for the M.P.A.

### B.A./M.P.A.

- 54.610 Public Management (3) (applicable to both degrees)
- Three courses specified by the Department of Public Administration as applicable to both degrees

### Recommendations

Recommended preparatory courses for the combined B.A./M.P.A. program include courses in economics, statistics, computer science, accounting, writing and other communication skills, undergraduate internships, and related work experience.

**Note:** Acceptance and participation in the combined B.A./M.P.A. program does not automatically guarantee acceptance into the graduate program. Students must apply for admission to the graduate program through



the Office of Admissions in the last undergraduate semester. If a cumulative grade point average of 3.00 is maintained, a student can expect to be admitted to the master's program.

## M.P.A. in Public Administration

### Admission to the Program

Applicants must meet the minimum university requirements for graduate study. Admission is based on academic record, two letters of recommendation and an essay on career interests. The Graduate Record Examination (GRE) is desirable but not required for admission to the program. The GRE is required for full-time applicants who wish to be considered for a departmental honors award.

### Degree and Major Requirements

- A total of 42 credit hours of approved graduate work. Students with the requisite professional experience may be exempted from 6 credit hours of the total requirement (see Special Opportunities below)
- One written comprehensive examination, lasting four and a half hours, must be passed by each student. The examination tests knowledge of the core courses listed below.
- The research requirement is satisfied by completing two of the following courses with grades of B or better:
  - 54.601 Methods of Problem Solving I (3)
  - 54.602 Methods of Problem Solving II (3)
  - 54.610 Public Management (3)
  - 54.612 Politics of Administration (3)
  - 54.630 Public Managerial Economics (3)
- All M.P.A. students are required to attain basic competency in the following areas: public management; methods of problem solving in public administration; information systems and computer applications in management decision making; microeconomics applied to the public sector; policy making, politics, and administration; legal aspects of public administration; leadership, interpersonal relations and the behavioral sciences; public financial management; and personnel administration.

### Course Requirements

- 54.601 Methods of Problem Solving I (3)
- 54.602 Methods of Problem Solving II (3)
- 54.610 Public Management (3)
- 54.612 Politics of Administration (3)
- 54.616 Legal Issues in Public Administration (3)
- 54.630 Public Managerial Economics (3)
- 54.633 Public Financial Management (3)
- 54.650 Leadership for Public Management (3)
- 54.665 Public Personnel Administration (3)
- Management skill (one course): Students select at least one course designed to increase practical skills needed by public managers.
- Area of concentration (three courses): Students take at least three courses in a single area of concentration or

subfield within it. The three courses must complement one another and lead to an advanced level of study. Any remaining courses necessary to complete the M.P.A. program are selected from advanced offerings in supporting fields.

Areas include: policy analysis; urban affairs; public financial management; international administration; arts management; management information systems; human resources and organization development; and court management.

Internship: Preservice students about to begin their career participate in a supervised internship. An internship seminar, equal in credit to one course, relates on-the-job experience to current political and administrative issues. The formal internship program is optional for students already employed.

### Special Opportunities

A student who has performed successfully for several years as a manager in a supervisory role before admission to the M.P.A. program may apply to the chair of Public Administration to have the total program reduced by up to 6 credit hours. Such application must make reference to a number of areas in which the student has acquired basic competency. Credit earned as part of an internship program does not count toward the total course requirement for students availing themselves of this provision. Students seeking to use both the significant managerial experience clause and the transfer credit allowance are limited to a total of 9 credit hours.

## SPECIAL MASTER'S DEGREE PROGRAMS

**The Key Executive Program** is designed to meet the executive development needs of senior government managers. Begun in 1975, the Key Executive Program is a twenty-month course of study in the skills, knowledge, and values needed by top-level public executives and offers participants the perspectives and competencies necessary for effective performance in high level executive and managerial work. The curriculum includes the major activity areas used in certifying candidates for career positions in the Senior Executive Service.

Classes are held on Fridays and Saturdays. Participants continue to work at their jobs while completing their studies. Upon completion of this 36-credit hour graduate program, participants are awarded the Master of Public Administration degree.

Admission to the Key Executive Program is competitive and restricted to GS14s or above (or the equivalent) who exercise significant responsibilities for program management or policy development and are preparing themselves for positions of greater responsibility. A bachelor's degree is required. The program is oriented to civilian personnel in the federal government, military or other uniformed personnel, and state and local officials.

**The Organization Development Program** is administered jointly by the Department of Public Administration and the NTL Institute for Applied Behavioral Science and is designed for persons who want to improve their professional skills in the field of organization development. Students successfully completing the 36-credit hour degree

program are awarded the Master of Science in Organization Development.

#### **The Personnel and Human Resource Management**

**Program** is a weekend program of study designed to educate students for specific careers in the human resource management field. Students progress as a group through this program, taking courses from both the Department of Public Administration and the Kogod College of Business Administration, leading to the M.S. in Personnel and Human Resource Management.

## **M.S.O.D. in Organization Development**

The M.S. in Organization Development is a specialized course of study designed to educate students for specific professional roles in the human resource development field. Courses are usually offered on weekends, and are tailored to provide advanced theory and technology in organization development.

#### **Admission to the Program**

In addition to meeting the minimum university requirements for graduate study, applicants must possess two years of relevant professional experience in human resource development or related fields. Exceptions may be made for highly qualified applicants with many years of service and a record of exceptional accomplishment. Such candidates are admitted provisionally, and after completing four courses with a grade point average of 3.00 (on a 4.00 scale) or higher, may be advanced to full standing.

#### **Major**

The Master of Science in Organization Development is taken with a major in Organization Development (OD). The major is designed for individuals pursuing careers in training, organizational development, and organizational research and consultation.

#### **Degree and Major Requirements**

- A total of 36 credit hours of approved graduate work
- The research requirement is satisfied by completing two of the following courses with grades of B or better:
  - 54.641 Methods of Problem Solving (3)
  - 54.642 Organization Dynamics (3)
  - 54.646 Consultation Skills (3)
  - 54.677 Introduction to Organization Development (3)
- A written comprehensive examination covering material in the major field of study
- As a prerequisite to a major in Organization Development, students must take a Human Interaction Laboratory or Institute on Group and Personal Interaction

#### **Course Requirements**

- 54.640 Leadership (3)
- 54.641 Methods of Problem Solving (3)
- 54.642 Organization Dynamics (3)
- 54.677 Introduction to Organizational Development (3)

- Twenty-four credit hours chosen from the following course options:
  - 54.643 Financial Management (3)
  - 54.646 Consultation Skills (3)
  - 54.647 Career Development (3)
  - 54.648 Training Design and Facilitation (3)
  - 54.649 Studies in Human Resource Management (3) (special sections)

The special sections of 54.649 are chosen from advanced offerings in Public Administration and Human Resource Development fields as specified each semester by the department: Building Effective Work Teams; Conflict Resolution; Skill Module; and International Human Resource Development.

54.653 The Individual and the Organization (3)

54.674 Practicum Research Project (3)

54.675 Organizational Planning and Control (3)

54.676 Politics of Administration (3)

54.678 Legal Issues in Public Administration (3)

54.679 Studies in Human Resource Development (3) (special sections)

The special sections of 54.679 are chosen from advanced offerings in the Public Administration and Organization Development fields as specified each semester by the department, e.g., Managing Organization Change.

Other university and consortium courses taken as electives must be approved by the chair, Department of Public Administration.

## **M.S. in Personnel and Human Resource Management**

The M.S. in Personnel and Human Resource Management is a specialized course of study designed to educate students for specific careers in the human resource management field. The courses are offered on weekends and students progress through the program as a single class. Courses are specifically designed to blend the latest theory and practice in the field of human resource management. All students are expected to attain basic competency in personnel and human resource management.

#### **Admission to the Program**

Applicants must have earned a bachelor's degree with a cumulative grade point average of 3.00 (on a 4.00 scale) in their last 60 credit hours of undergraduate work. Exceptions may be made for highly qualified applicants with many years of service and an outstanding record of professional achievement. Such candidates may be admitted provisionally, with their academic record reviewed at the completion of 12 graduate credit hours.

#### **Degree Requirements**

- A total of 39 credit hours of approved graduate work
- One written comprehensive examination must be passed
- The research requirement is satisfied by completing two of the following courses with grades of B or better:
  - 54.630 Public Managerial Economics
  - 54.641 Methods of Problem Solving

- 10.661 Compensation Systems
- 10.662 Managing Pensions and Benefits

### Course Requirements

- 54.616 Legal Issues in Public Administration (3)
- 54.630 Public Managerial Economics (3)
- 54.640 Leadership (3)
- 54.641 Methods of Problem Solving (3)
- 54.642 Organization Dynamics (3)
- 54.648 Training Design and Facilitation
- 54.658 Managing Conflict (3)
- 10.585 Managing Diversity: Recruiting and Selecting the Workforce (3)
- 10.671 Strategies in Human Resource Management (3)
- 10.681 Seminar in Compensation Systems (3)
- 10.682 Seminar in Managing Pensions and Benefits (3)
- 10.684 Seminar in Performance Management (3)
- 10.686 Management-Union Relations (3)

## CERTIFICATES

### Graduate Certificate in Organizational Change

#### Admission to the Program

Open to students with a bachelor's degree from an accredited institution.

#### Certificate Requirements

- Fifteen credit hours of approved graduate study to be completed within four years of admission. Students must take a minimum of 6 credit hours during each twelve-month period until the program is completed.

#### Course Requirements

- 54.650 Leadership for Public Management (3)
- 54.654 Managing Organization Change (3)
- 54.661 Complex Organizations (3)
- 54.656 Managing Diversity (3)  
or  
54.658 Managing Conflict
- One of the following:  
54.616 Management Workshop:  
Group and Personal Interaction (3)  
54.652 Building Effective Work Teams (3)  
54.653 The Individual and the Organization (3)

### Graduate Certificate in Public Financial Management

This certificate program is designed for government employees interested in expanding their knowledge and practical skills in public financial management. The main objective of the program is to provide the student with a working knowledge of basic financial management techniques that are relevant to public sector financial operations.

techniques that are relevant to public sector financial operations.

#### Admission to the Program

Open to students with a bachelor's degree from an accredited college or university.

#### Certificate Requirements

- Fifteen credit hours of approved graduate study to be completed within four years of admission. Students must take a minimum of 6 credit hours during each twelve-month period until the program is completed.

#### Course Requirements

- 54.601 Methods of Problem Solving I (3)
- 54.610 Public Management (3)
- 54.631 Financing Government Services (3)  
or  
54.636 Public Financial Analysis (3)
- 54.632 Governmental Budgeting (3)
- 54.633 Public Financial Management (3)

With approval of the Department of Public Administration, course substitutions may be made in this certificate program.

### Graduate Certificate in Public Management

#### Admission to the Program

Open to students with a bachelor's degree from an accredited institution.

#### Certificate Requirements

- Fifteen credit hours of approved graduate study to be completed within four years of admission. Students must take a minimum of 6 credit hours during each twelve-month period until the program is completed.

#### Course Requirements

- 54.601 Methods of Problem Solving I (3)
- 54.610 Public Management (3)
- 54.616 Legal Issues in Public Administration (3)
- 54.633 Public Financial Management (3)
- 54.650 Leadership for Public Management (3)

## Ph.D. in Public Administration

#### Admission to the Program

Applicants are considered and admitted only for the fall semester each year. February 1 is the deadline for application for admission. All applicants must submit scores from the verbal and quantitative sections of the Graduate Record Examination. The normal minimum for consideration is a grade point average of 3.20 (on a 4.00 scale) in all previous academic work. Preference will be given to applicants for full-time study, although highly qualified students may be admitted for part-time study.

## Major Fields

American Politics, Comparative Politics, Justice, Law and Society, Policy Analysis, and Public Administration

## Degree and Major Requirements

- A total of 72 hours of approved graduate work is required for students entering the program with a bachelor's degree; a minimum of 48 hours is required of students who have completed an approved master's degree.
- Advancement to candidacy is accomplished by successfully completing a written qualifying examination on the major field at the end of the second semester of study.
- Students take two written comprehensive examinations, in Public Administration and any one of the remaining major areas. They master the subject matter of a third area through formal course work. Following completion of the written examinations, all students take an oral examination on their entire program of study before a committee of faculty members.

Two of the three major areas must be offered by the School of Public Affairs. As long as this requirement is satisfied, students seeking the Ph.D. in Public Administration may include as a comprehensive or non-comprehensive area any Ph.D. field in the School of International Service (except Comparative and Regional Studies) or any Ph.D. field offered by any other teaching unit at American University, subject to the approval of the SPA Director of Doctoral Programs.

- The Ph.D. is fundamentally a research degree. Understanding scientific inquiry and correctly using research techniques require extensive preparation. The faculty has designed three courses to help doctoral students comprehend the nature of science and master tools of research. All students in the program take these courses:

53.612 Conduct of Inquiry I (3)

53.613 Conduct of Inquiry II (3)

53.614 Research in Political and Administrative Behavior (3)

- Each student selects a research specialization in which he or she will complete an original project under the direction of program faculty and write a dissertation. Students may choose research projects within one of the major areas or they may select a research specialization from one of the other graduate fields within the school.

Each student prepares a research proposal for the dissertation project. It is the responsibility of the student to secure the agreement of a School of Public Affairs full-time tenured or tenure-track faculty member to serve as the chair of his or her dissertation committee. One of the two other members of the committee may be from outside the School of Public Affairs. As part of this process, each student must publicly defend the research proposal before the dissertation committee and other interested faculty.

The committee and the SPA Director of Doctoral Programs (acting for the dean) must approve the defense and the research proposal. The topic covered by the proposal must be related to ongoing research or publications of the supervising faculty.

As work on the dissertation project progresses, each student registers for a total of 6-12 credit hours of directed study. Substantive course work may be used as part of this requirement where it contributes directly to the research specialization and is specifically recommended by the dissertation chair.

Upon completion of the research and the written dissertation, the candidate submits his or her manuscript to the dissertation committee for review. If the committee members approve the manuscript, the candidate must complete an oral defense of the dissertation and the general field in which it lies before the committee and other interested faculty. The committee determines conclusively at this point whether the dissertation and examination are acceptable.

The dissertation must consist of high quality original research directly relevant to the student's doctoral program. A dissertation proposal may be rejected for the following reasons: the topic does not address a major research issue in political science or public administration, the research design is inadequate, the methodology is inappropriate, or because no full-time tenured or tenure-track faculty member in the School of Public Affairs is academically competent or available to supervise the project. If the candidate fails to maintain satisfactory progress toward completion of the dissertation, his or her candidacy may be terminated.

## Course Requirements

### Major Field in Public Administration

- 54.710 Seminar in Public Administration (3)

### Other Major Fields:

- Two proseminars:  
53.710 Seminar in American Politics (3)  
53.720 Seminar in Policy Analysis (3)  
73.710 Seminar in Justice, Law and Society (3)

### For all fields:

- Two additional courses in each of the two written comprehensive areas (some areas may require three courses beyond the proseminar, rather than two)
- An additional course in a non-comprehensive area
- Four courses in research design and methodology:  
53.612 Conduct of Inquiry I (3)  
53.613 Conduct of Inquiry II (3)  
53.614 Research in Political and Administrative Behavior (3)  
53.704 Approaches to Political Understanding (3)
- Remaining 6-12 credit hours on the dissertation and, for those entering the program with a bachelor's degree, additional graduate level courses.

# Washington College of Law

**Dean** Elliott S. Milstein

**Deputy Dean** Andrew F. Popper

**Associate Dean for Student Affairs** Edwin R. Hazen

**Associate Dean for Institutional Advancement**

Paul P. Purta

**Assistant Dean for Finance and Administration**

F. Jean Urkums

**Director of the Law Library** Patrick E. Kehoe

**Director of Clinical Programs** Robert D. Dinerstein

**Director of Graduate International Legal Studies**

Claudio Grossman

**Director of Women and the Law Program**

Ann C. Shallock

## Overview of the Law School

The Washington College of Law was founded in 1896. It has a full-time faculty of 44 and a student body of approximately 1,000. The law school combines a rigorous and challenging atmosphere for legal studies with a highly personal approach to teaching.

The focus of the curriculum is on the methodology, practical skills, and theories fundamental to the practice of law. This is carried out through a wide range of traditional course offerings, supplemented by an extensive clinical program, simulation courses, and an international law program. These educational offerings are complemented by the vast legal network of federal agencies, courts, regulatory commissions, international organizations, and law firms present in Washington.

## Legal Study in Washington

The American University Washington College of Law is located in the northwest section of the city a short distance from Congress, the Supreme Court, the United States District Court and Court of Appeals, and the Maryland, Virginia, and District of Columbia courts. Washington is the center of all federal regulatory process, and is the principal home of every major federal agency, such as the Securities and Exchange Commission, the Federal Communications Commission, the Internal Revenue Service, and the Fed-

eral Trade Commission. Washington is also the base for U.S. cabinet-level departments, for example, the Department of Energy, the Department of Education, the Department of Justice, and other agencies, all of which perform functions critical to the federal system and contribute to an environment for legal education unparalleled outside this city. Accordingly, judicial, executive, and legislative internships form an integral part of the legal education of many of our students.

In addition, Washington is the seat of the world's principal intergovernmental financial institutions: the World Bank, the International Monetary Fund, and the Inter-American Development Bank are here. So, too, are the Organization of American States and the International Telecommunications Satellite Organization. Private or nongovernmental organizations, among them Amnesty International and the International Human Rights Law Group, have offices in Washington, and a majority of the world's leading international law firms can be found in this city.

Taking advantage of this natural setting for study and work, the law school offers many unique courses taught by its full-time faculty and by specialists who are members of the adjunct faculty. Field components are available in various courts and government agencies, and are carefully supervised by faculty members and designated field supervisors. For second- and third-year students interested in part-time law-related jobs, the Career Planning and Placement Office coordinates requests for law student employment from law firms, corporations, courts, and government agencies. Further, the law school offers a unique training program in federal regulatory process which has a separate lecture faculty of forty-five top-level officials from the government and private sector.

## The Academic Program

The American University law school has a strong national and international substantive focus, offering a broad range of courses in addition to the basic program necessary for state bar examinations. The Legal Clinic operates seven clinical programs, each of which involves students providing representation, under close faculty supervision,

of real clients with pending legal problems. Students have responsibility for every phase of the cases, from the initial client interview through the trial or appeal. The seven programs include: the Criminal Justice Clinic, in which students spend a semester prosecuting and a semester defending criminal cases; the Women and the Law Clinic, in which students represent women in abuse and neglect cases; the Public Interest Law Clinic, in which students represent clients before federal administration agencies; the Appellate Advocacy Clinic, which involves representation before state and federal appellate courts; the D.C. Civil Litigation Clinic, in which students represent the indigent in the Landlord-Tenant and Small-Claims Division of the D.C. Superior Court; the International Human Rights Clinic, in which students handle both domestic and international cases with human rights dimensions; and the Tax Clinic, which provides students with experience in federal tax practice before the Internal Revenue Service and the U.S. Tax Court.

Beyond the classroom, the clinical program, and field placements at federal, state, and local agencies, courts, and legislatures, the academic offerings are enriched by an extensive independent study research program allowing for intensive faculty-student work on complex legal research projects. Finally, *The American University Law Review*, *The American University Journal of International Law and Policy*, *The American University Administrative Law Journal*, and the *Journal of Gender and the Law* provide opportunities for students to develop expertise in traditional legal writing and research.

The basic first-year classes are taught using case analysis and dialogue as well as the problem method. First-year students take an intensive course in legal research and writing taught by attorneys from leading law firms or government agencies. Upper-class courses are mostly elective and include a wide variety of teaching styles and formats. The academic program leading to the Juris Doctor degree is designed to allow students to develop special skills in public law, business and commercial law, international law, property and land use, and related fields.

In addition to the Juris Doctor program, the law school offers a Master of Laws (LL.M.) in International Law. The LL.M. in International Legal Studies permits specialization in one of four areas: international trade and banking; international environmental law; international protection of human rights; and international organizations.

WCL also participates in three joint degree programs:

- J.D./M.A. in Law and International Affairs (with the School of International Service)
- J.D./M.B.A. in Law and Business (with the Kogod College of Business)
- J.D./M.S. in Law and Justice (with the School of Public Affairs)

These programs are all greatly enhanced by the availability of the many excellent research law libraries which are located in the city of Washington and which comprise resources unmatched elsewhere. The Washington College of Law's own Alvina Reckman Myers Law Library contains a book collection of some 250,000 volumes and provides computerized legal research facilities for students and faculty using its LEXIS and WESTLAW terminals. The law library is the research base for the entire academic program, serving students and law faculty.

### Student Body

Students at the law school come from several nations, more than forty states, and 250 undergraduate colleges and universities. Approximately half are women. There are a number of law students who have extensive work experience or advanced degrees in other disciplines. Students participate in numerous organizations, including the *Law Review*, the *Journal of International Law and Policy*, the *Administrative Law Journal*, the *Journal of Gender and the Law*, the Moot Court Program, the Student Bar Association, the Black Law Student Association (BLSA), the Hispanic Law Student Association, the Asian Pacific-American Law Student Association, the Women's Law Association, and the International Law Society. The students are actively involved in the governance of the school and sit on most faculty committees.

### Admissions

The law school receives approximately 6,000 applications for about 325 places in the J.D. program entering class. The Admissions Committee uses a rolling admissions system and notifies applicants as decisions are made. There are limited places for transfer and unclassified students. Financial aid, based on need, is available in the form of scholarships and loans. Second- and third-year students with good academic records are eligible for Deans' Research and Teaching Fellowships.

Specific requests for information regarding admissions, financial aid, or programming should be sent directly to Law School Admissions, Washington College of Law, The American University, Washington, D.C. 20016-8085.

# Interdisciplinary Degree Programs

Interdisciplinary programs offer students an opportunity to utilize the multiplicity of resources available at the American University by pursuing degrees that are administered jointly by various schools and departments within the university.

Students also have the option of designing a degree program that fulfills individual educational and professional requirements within the high academic standards of the university. Academic counselors and faculty members counsel students in the formation of undergraduate and graduate, formal and informal interdisciplinary majors. Up-to-date information on all interdisciplinary activities can be obtained from the appropriate undergraduate or graduate dean's office.

## UNDERGRADUATE PROGRAMS

### **B.A. in Interdisciplinary Studies: Communication, Legal Institutions, Economics, and Government (CLEG)**

Refer to the Department of Government section in the School of Public Affairs chapter for information on requirements for this program.

### **B.A. in Environmental Studies**

Issues concerning the environment are assuming significant roles in shaping the social, economic, and political structures at both national and international levels. The B.A. in Environmental Studies is a rigorous, interdisciplinary program of studies designed to provide the student with a basic understanding of the scientific and social processes that shape our environment. Students completing the program will have the fundamental knowledge and the critical thinking skills to make independent, rational, decisions concerning current and pressing environmental issues.

Each student will follow one of two tracks, each of which consists of a core and a set of related courses. The core of each track provides a solid foundation based on the natural sciences as well as the social sciences. The student then builds upon the core by choosing from an approved list of related courses spanning many disciplines, including courses in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs. A careful choice of related courses, made in consultation with a faculty adviser, will allow the student to tailor a program of study suited to his or her specific interests and professional goals.

The Environmental Science track, stressing the natural sciences, requires a core of 56 credit hours and at least 13 credit hours of related courses. The Environmental Policy track, emphasizing the social sciences, requires a 57-59 credit hour core, plus at least 10-12 credit hours of related courses. Students in the Environmental Policy track concentrate in one social science discipline by including a social research methodology course and at least three additional courses within any one of three clusters (Social and Economic Issues, Global Issues, or Governmental Issues) of social science courses as part of the related courses requirement.

Students interested in Environmental Studies are encouraged to participate in the Freshman Environmental Experience program offered by the Division of Student Life and the Department of Biology prior to the beginning of the fall semester. Students in the program experience several aspects of environmental issues through group discussions with faculty and area experts, as well as participation in local area projects, such as maintenance of state or regional park trails.

Each student in the program is also encouraged to gain practical field experience through an internship at one or more of the many public and private environmental organizations in the Washington, D.C. vicinity, such as the Environmental Protection Agency, the Smithsonian Institution, the Chesapeake Bay Foundation, and the Nature Conservancy. Participation in internships will typically take place during the junior or senior year. A maximum of

## 222 Interdisciplinary Degree Programs

3 credit hours of internship may be counted towards the related course requirement.

Graduates of the program will be prepared for employment in natural resource fields dealing with basic and applied scientific interests, management and policy making, or for graduate level training in environmental studies and in professional programs in law, health and medicine, or business.

### Admission to the Program

Admission to the program is through formal declaration of the major through the Department of Biology.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- Completion of a minimum of 69 credit hours in either the Environmental Science or Environmental Policy track, with grades of C or better.

*Note:* 15 credit hours may also count toward fulfillment of the General Education Requirement.

### Core Course Requirements

#### Environmental Science (56 credit hours)

##### *Environmental Studies/Policy*

- 09.102 Seminar in Environmental Issues (1)
- 09.492 Senior Capstone in Environmental Studies (4)
- 19.375 Economics of Environmental Policy (3)  
or  
33.388 International Environmental Politics (3)  
or  
53.370 Formation and Implementation of  
Environmental Policy (3)

##### *Natural Sciences*

- 09.110 General Biology I 5:1 (4)
- 09.210 General Biology II 5:2 (4)
- 09.423 Introduction to Ecology (3)
- 15.110 General Chemistry I 5:1 (4)
- 15.210 General Chemistry II 5:2 (4)
- Two of the following:  
09.375 Water Resources (3)  
15.401 Geology (3)  
51.360 Environment and the Atmosphere (3)

##### *Social Sciences*

- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 33.105 World Politics /S 3:1 (3)
- 53.110 Politics in the United States 4:1 (3)
- 65.389 Environment and Society (3)

##### *Mathematics/Statistics*

- 41.221 Calculus I (4)
- 42.202 Basic Statistics (4)

#### Environmental Policy (57-59 credit hours)

##### *Environmental Studies/Policy*

- 09.102 Seminar in Environmental Issues (1)
- 09.492 Senior Capstone in Environmental Studies (4)
- 19.375 Economics of Environmental Policy (3)
- 33.388 International Environmental Politics (3)
- 53.370 Formation and Implementation of  
Environmental Policy (3)

##### *Social Sciences*

- 19.100 Macroeconomics 4:1 (3)
- 19.200 Microeconomics 4:2 (3)
- 33.105 World Politics /S 3:1(3)
- 53.110 Politics in the United States 4:1 (3)
- 65.389 Environment and Society (3)

##### *Natural Sciences*

- 09.110 General Biology I 5:1 (4)
- 09.250 Living in the Environment 5:2 (3)  
or  
09.210 General Biology II 5:2 (4)
- 15.110 General Chemistry I 5:1 (4)
- 15.220 Environmental Chemistry 5:2 (3)  
or  
15.210 General Chemistry II 5:2 (4)
- One of the following:  
09.375 Water Resources (3)  
15.401 Geology (3)  
51.360 Environment and the Atmosphere (3)

##### *Mathematics/Statistics/Research Methodology*

- 41.211 Applied Calculus I (4)  
or  
41.221 Calculus I (4)
- 42.202 Basic Statistics (4)
- One social research methodology course in the same social science cluster elected for the related course requirement (see below) (3)

### Related Course Requirements

#### Environmental Science

- A minimum of 13 credit hours selected from the following, including up to 3 credit hours of internship

*Note:* Some of these courses have prerequisites.

Selection of courses not listed here may be counted



toward the related course requirement only with permission of the faculty adviser.

#### *Natural Sciences*

- 09.375 Water Resources (3) (if not taken for core requirement)  
 09.404 Biology of Plants with Laboratory (4)  
 09.410 Invertebrate Zoology with Laboratory (4)  
 09.440 Microbiology with Laboratory (4)  
 09.491 Internship (1-4)  
 09.552 Field and Laboratory Methods in Water Quality Analysis (4)  
 09.565 Techniques of Ecological Research (3)  
 15.310 Organic Chemistry I (3) *and*  
 15.312 Organic Chemistry I Laboratory (1)  
 15.320 Organic Chemistry II (3) *and*  
 15.322 Organic Chemistry II Laboratory (1)  
 15.350 Quantitative Analysis (3) *and*  
 15.351 Quantitative Analysis Laboratory (2)  
 15.401 Geology (3) (if not taken for core requirement)  
 15.491 Internship (1-6)  
 15.501 Principles of Analytical Chemistry (3)  
 15.507 Chemical Literature (1)  
 51.105 College Physics I 5:1 (4)  
 or  
 51.110 University Physics I 5:1 (4)  
 51.205 College Physics II 5:2 (4)  
 or  
 51.210 University Physics II 5:2 (4)  
 51.360 Environment and the Atmosphere (3) (if not taken for core requirement)

#### *Social Sciences*

- 03.251 Perspectives in Cultural Anthropology (3)  
 03.543 Anthropology of Development (3)  
 19.310 Introduction to Econometrics (3)  
 19.311 International Economics (3)  
 19.300 Price Theory (3)  
 19.307 Political Economy of Economic Development (3)  
 19.308 History of Economic Development (3)  
 19.375 Economics of Environmental Policy (3) (if not taken for core requirement)  
 19.379 Economics of Energy, Resources, and Environment (3)  
 33.206 Introduction to International Relations Research (3)  
 33.110 Beyond Sovereignty 3:1 (3)  
 33.210 Human Geography: Peoples, Places, and Cultures 3:2 (3)  
 33.307 Quantitative Approaches to International Politics (3)  
 33.308 Introduction to Peace and Conflict Resolution (3)  
 33.321 International Law (3)  
 33.325 International Organization (3)  
 33.337 International Development (3)  
 33.388 International Environmental Politics (3) (if not taken for core requirement)  
 53.310 Introduction to Political Research (3)  
 53.352 Law and the Political System (3)  
 53.370 Formation and Implementation of Environmental Policy (3) (if not taken for core requirement)

- 53.423 Advanced Studies in Public Policy: Science and Environmental Policy (3)  
 From Environmentalism to Greenpeace (3)  
 53.425 Governmental Regulation and Deregulation (3)  
 54.280 Administrative Politics (3)  
 65.320 Introduction to Social Research (3)  
 65.330 Social Change and Social Conflict (3)  
 65.332 Law and Society (3)  
 65.423 Social Policy Research (3)

#### *Mathematics/Statistics/Computer Science*

- 40.280 Introduction to Computer Science (4)  
 41.222 Calculus II (4)  
 42.302 Intermediate Statistics (3)

#### **Environmental Policy**

- A minimum of 10-12 credit hours selected from the following, consisting of at least three non-internship courses from the same social science cluster (Social and Economic Issues, Global Issues, or Governmental Issues) as the social research methodology course taken for the core requirement (see above), and additional courses from the list below, including courses from any social science cluster, natural sciences, or mathematics/statistics/computer science, as well as up to 3 credit hours of internship

*Note:* Some of these courses have prerequisites. Selection of courses not listed here may be counted toward the related course requirement only with permission of the faculty adviser.

#### *Social Sciences*

##### Social and Economic Issues Cluster:

- One of the following social research methodology courses, taken to meet the core requirement, above:  
 19.310 Introduction to Econometrics (3)  
 65.320 Introduction to Social Research (3)  
 and three of the following courses:  
 03.251 Perspectives in Cultural Anthropology (3)  
 19.300 Price Theory (3)  
 19.307 Political Economy of Economic Development (3)  
 19.308 History of Economic Development (3)  
 19.379 Economics of Energy, Resources, and Environment (3)  
 65.330 Social Change and Social Conflict (3)  
 65.332 Law and Society (3)  
 65.423 Social Policy Research (3)

##### Global Issues Cluster:

- 33.206 Introduction to International Relations Research (3)  
 (taken to meet the core requirement social research methodology course, above)  
 and three of the following courses (at least two at the 300-level or above):  
 03.543 Anthropology of Development (3)  
 19.311 International Economics (3)  
 33.110 Beyond Sovereignty 3:1 (3)  
 33.210 Human Geography: Peoples, Places, and Cultures 3:2 (3)

## 224 Interdisciplinary Degree Programs

- 33.307 Quantitative Approaches to International Politics (3)
- 33.308 Introduction to Peace and Conflict Resolution (3)
- 33.321 International Law (3)
- 33.325 International Organization (3)
- 33.337 International Development (3)

### Governmental Issues Cluster:

- 53.310 Introduction to Political Research (3)  
(taken to meet the core requirement social research methodology course, above)  
and three of the following courses:
  - 53.352 Law and the Political System (3)
  - 53.423 Advanced Studies in Public Policy:  
Science and Environmental Policy (3)  
From Environmentalism to Greenpeace (3)
  - 53.425 Governmental Regulation and  
Deregulation (3)
  - 54.260 Administrative Politics (3)

### Natural Sciences

- 09.375 Water Resources (3) (If not taken for core requirement)
- 09.404 Biology of Plants with Laboratory (4)
- 09.410 Invertebrate Zoology with Laboratory (4)
- 09.423 Introduction to Ecology (3)
- 09.440 Microbiology with Laboratory (4)
- 09.491 Internship (1-4)
- 09.552 Field and Laboratory Methods in Water Quality Analysis (4)
- 09.565 Techniques of Ecological Research (3)
  - 15.310 Organic Chemistry I (3) *and*
  - 15.312 Organic Chemistry I Laboratory (1)
  - 15.320 Organic Chemistry II (3) *and*
  - 15.322 Organic Chemistry II Laboratory (1)
  - 15.350 Quantitative Analysis (3) *and*
  - 15.351 Quantitative Analysis Laboratory (2)
- 15.401 Geology (3) (If not taken for core requirement)
- 15.491 Internship (1-6)
- 15.501 Principles of Analytical Chemistry (3)
- 15.507 Chemical Literature (1)
- 51.105 College Physics I 5:1 (4)  
or  
51.110 University Physics I 5:1 (4)  
or  
51.205 College Physics II 5:2 (4)  
or  
51.210 University Physics II 5:2 (4)
- 51.360 Environment and the Atmosphere (3) (If not taken for core requirement)

### Mathematics/Statistics/Computer Science

- 40.280 Introduction to Computer Science (4)
- 41.222 Calculus II (4)
- 42.302 Intermediate Statistics (3)

## B.A. in Language and Area Studies

The B.A. in Language and Area Studies is designed for students with a strong interest in a region of the world and in a language of that region. The program, jointly designed and administered by the College of Arts and Sciences (CAS) and the School of International Service (SIS), builds on the strengths of the CAS Department of Language and Foreign Studies (LFS) and the SIS field of Comparative and Regional Studies.

This innovative program achieves a balance between humanities and social sciences courses, combined with an advanced level of foreign language study. The American University is one of only a few institutions in the country which provide a degree with such combined program depth in both area studies and foreign languages. The Language and Area Studies degree program responds to the national need for foreign language skills in the global village for effective communication and improved international understanding.

An advisory committee composed of faculty members from the CAS Department of Language and Foreign Studies and the SIS Department of Comparative and Regional Studies works closely with Language and Area Studies degree majors throughout their program to provide guidance in course selection, research, and careers.

### Admission to the Program

To be considered for freshman admission, an applicant should have earned at least a 3.00 average in secondary school. Students from other regionally accredited collegiate institutions, and students in other programs at the American University who have completed the freshman year, should maintain a cumulative grade point average of 3.00 (on a 4.00 scale) to be considered for transfer to the program.

### Majors

French/Europe, German/Europe, Russian/Area Studies, and Spanish/Latin America

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course from an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

A total of 51 credit hours with grades of C or better, as outlined below.

## Course Requirements

### Foundation Courses (9 credit hours)

- 33.105 World Politics /S 3:1 (3)
- One intercultural communication course from the following:  
33.140 Cross Cultural Communication 3:1 (3)  
33.340 Foundations of International Communication (3)  
33.341 Intercultural Communication (3)
- One comparative politics course from the following:  
53.130 Comparative Politics 3:1 (3)  
53.231 Third World Politics (3)  
53.232 Politics of Industrial Societies (3)

### Foreign Language Course work (18 credit hours)

- A total of 18 credits of course work in a single foreign language at the 300 level or above.
- Demonstration of proficiency in the appropriate foreign language:

As a requirement for completing the degree, Language and Area Studies (LAS) majors must demonstrate proficiency in the foreign language associated with their area of focus. This language proficiency will be demonstrated by achieving a B (3.00) average or better for all coursework in the foreign language taken in the Department of Language and Foreign Studies.

### Area Studies (21 credits with 12 credits at the 300 level or above)

- Fifteen credits of course work in humanities courses, including 3 credits from the Department of History (29.xxx) and an additional 3 credits of course work with a strong historical component, from the following:

#### French/Europe

- 07.101 European Art: Renaissance to the Present (3)
- 23.230 Major European Writers I: An Introductory Survey (3)
- 29.238 France Since Napoleon (3)
- 29.329 European Thought and Ideology (3)
- 37.326 French Topics (3)
- 37.328 Introduction to French Translation (3)
- 37.420 Les Registres du Français (3)
- 37.428 Civilisation Française I (3)
- 37.429 Civilisation Française II (3)
- 37.522 Le Siècle des Lumières (3)
- 37.523 Le Romantisme (3)
- 37.524 Le Réalisme (3)
- 37.525 Littérature Contemporaine (3)
- 37.529 Colloquium on France (3)
- 60.311 Modern European Movements (3)

#### German/Europe

- 07.101 European Art: Renaissance to the Present (3)
- 23.230 Major European Writers I: An Introductory Survey (3)
- 29.239 Modern Germany Since 1848 (3)
- 29.318 Nazi Germany (3)
- 29.329 European Thought and Ideology (3)
- 37.336 German Topics (3)
- 37.338 Introduction to German Translation (3)

- 37.438 German Civilization I (3)
- 37.439 German Civilization II (3)
- 60.311 Modern European Movements (3)

#### Russian/Area Studies

- 23.367 Russian and Soviet Literature (3)
- 23.368 Dostoyevsky and Tolstoy (3)
- 29.225 Russia: Past and Present 3:2 (3)
- 29.230 Early Russian History, 988-1700 (3)
- 29.231 Imperial Russia, 1700-1917 (3)
- 29.232 Twentieth Century Russia (3)
- 29.345 Russian Studies (topics) (3)
- 37.341 Russian Political Translation (3)
- 37.347 Introduction to Russian Literature (3)
- 37.442 Russian Literary Translation (3)
- 37.540 Russian Structure (3)
- 37.543 Russian Classics (3)
- 37.545 Russian Drama (3)

#### Spanish/Latin America

- 29.241 Colonial Latin America (3)
- 29.242 Latin America Since Independence (3)
- 29.340 Latin American Studies (topics) (3)
- 37.210 Latin America: History, Art, Literature 3:2 (3)
- 37.356 Spanish Topics (3)
- 37.357 Introduction to Latin American Literature (3)
- 37.358 Introduction to Spanish Translation (3)
- 37.359 Advanced Spanish Translation (3)
- 37.450 Spanish Civilization I: Spain (3)
- 37.451 Spanish Civilization II: Latin America (3)
- 37.491 Spanish Internship: *Proyecto Amistad* (2-6)
- 37.554 Classics of Latin American Literature (3)
- 37.559 Colloquium on Latin America (3)

- Six credits of course work in social science courses, selected from the following:

#### French/Europe

- 03.339 Culture Area Analysis: Europe (3)
- 19.302 Comparative Economic Systems (3)
- 19.307 Political Economy of Economic Development (3)
- 19.308 History of Economic Development (3)
- 29.238 France Since Napoleon (3)
- 29.329 European Thought and Ideology (3)
- 33.331 An Overview of the European Community (3)
- 33.355 The Relations of West European Nations (3)
- 33.530 Colloquium on the Common Market (3)
- 33.533 Seminar on the European Community's Current Programs (topics) (3)
- 33.557 Foreign Policy Formulation in West European States (3)
- 53.232 Politics of Industrial Societies (3)
- 53.432 Political Institutions and Processes in Selected Countries: France (3)
- 53.532 Political Institutions and Processes in Selected Regions: Western Europe (3)

#### German/Europe

- 03.339 Culture Area Analysis: Europe (3)
- 19.302 Comparative Economic Systems (3)
- 19.307 Political Economy of Economic Development (3)
- 19.308 History of Economic Development (3)
- 29.239 Modern Germany Since 1848 (3)

## 226 Interdisciplinary Degree Programs

- 29.318 Nazi Germany (3)  
29.329 European Thought and Ideology (3)  
33.331 An Overview of the European Community (3)  
33.355 The Relations of West European Nations (3)  
33.530 Colloquium on the Common Market (3)  
33.533 Seminar on the European Community's Current Programs (3)  
33.551 Politics and Society in Europe Since 1945 (3)  
33.557 Foreign Policy Formulation in West European States (3)  
53.232 Politics of Industrial Societies (3)  
53.432 Political Institutions and Processes in Selected Countries: Germany (3)  
53.532 Political Institutions and Processes in Selected Regions: Western Europe (3)

### *Russian/Area Studies*

- 03.339 Culture Area Analysis: Eastern Europe (3)  
19.302 Comparative Economic Systems (3)  
19.307 Political Economy of Economic Development (3)  
19.308 History of Economic Development (3)  
19.322 Marxist Economics (3)  
19.552 Economic Transition in Eastern Europe and New Independent States (3)  
29.225 Russia: Past and Present 3:2 (3)  
29.230 Early Russian History, 988-1700 (3)  
29.231 Imperial Russia, 1700-1917 (3)  
29.232 Twentieth Century Russia (3)  
29.345 Russian Studies (Topics) (3)  
33.258 Contemporary Russia (3)  
33.259 Comparative Change in East Europe (3)  
33.359 Russia and Central Eurasia in World Affairs (3)  
33.381 Foreign Policies of the Great Powers (3)  
33.558 Comparative Politics of the Russian Federation (3)  
37.200 Russia and the United States 3:2 (3)  
53.432 Political Institutions and Processes in Selected Countries: Former USSR (3)  
53.532 Political Institutions and Processes in Selected Regions: Eastern Europe (3)  
65.333 Capitalism, Socialism, Communism (3)

### *Spanish/Latin America*

- 03.339 Culture Area Analysis: Mexico and Central America; South America (3)  
19.302 Comparative Economic Systems (3)  
19.307 Political Economy of Economic Development (3)  
19.308 History of Economic Development (3)  
19.555 Political Economy of Latin American Development: Theories versus Realities (3)  
29.241 Colonial Latin America (3)  
29.242 Latin America Since Independence (3)  
29.340 Latin American Studies (topics) (3)  
33.276 Contemporary Latin America (3)  
33.337 International Development (3)  
33.577 International Relations of Latin America I (3)  
33.578 International Relations of Latin America II (3)  
33.582 International Organizations and Latin American Development (3)

- 53.432 Political Institutions and Processes in Selected Countries: Mexico (3)  
53.532 Political Institutions and Processes in Selected Regions: Central America; Latin America (3)  
65.230 Conflict and Change in Latin America 3:2 (3)  
65.531 Regional Studies in Social Change: Latin America (3)

### **Senior Seminar (3 credit hours)**

- 33.401 Senior Seminar in Language and Area Studies (SIS)  
or  
37.401 Senior Seminar in Language and Area Studies (LFS)

### **Other Options**

- Students may, where appropriate, and with Faculty Advisory Committee approval, select special topics courses to fulfill requirements.
- Student may also apply up to 3 credit hours toward the major from an approved internship or Cooperative Education Field Experience.
- Study abroad course credits may be used toward the major with the approval of the Faculty Advisory Committee.

### **University Honors Program**

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## **Minor in Language and Area Studies**

- A total of 24 credit hours

### **Course Requirements**

- Twelve credit hours in the Department of Language and Foreign Studies at the 200 level or above, including two courses at the 300 level.
- Twelve credit hours selected from an approved list of courses in area studies:  
Courses include those from anthropology (03.xxx), economics (19.xxx), history (29.xxx), international studies (33.xxx), literature (23.xxx), or sociology (65.xxx)  
One 3 credit course must be at the 300 level or above from SIS; one 3 credit course must be from history

#### **Areas offered:**

French/Europe, German/Europe, Russian/Area Studies, Spanish/Latin America: See list of approved courses for major in Language and Area Studies, above.  
Japanese/Asia: Consult LAS degree program adviser for approval of courses for this minor.

## B.A. in Foreign Language and Communication Media

### Admission to the Program

Students are admitted to either the School of Communication or to the Department of Language and Foreign Studies of the College of Arts and Sciences.

### Program Tracks

French, German, Russian, or Spanish combined with Broadcast Journalism, Print Journalism, Public Communication, or Visual Media

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- Prerequisite competency in the major language at the intermediate level
- A total of 54 credit hours with grades of C or better

### Course Requirements

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- Three communication and media studies courses from the School of Communication. (See Media Studies (MS) in the course listings in this publication.)
- Two courses related to any contemporary culture taught inside or outside the department
- One of the following:  
03.254 Language and Culture (3)  
38.253 Language and Mind (3)  
or a higher-level linguistics course with permission of the student's adviser.
- Five professional courses in one of the four communication program tracks: Broadcast Journalism, Print Journalism, Public Communication, or Visual Media
- Fifteen credit hours of courses in the major language at the 300 level or above taken in the Department of Language and Foreign Studies

## University Honors Program

Students in the University Honors Program have the opportunity to graduate with University Honors in the major. To do so, students complete 12 hours of advanced-level Honors work in the department and, upon departmental recommendation, graduate with University Honors in the major. The department's Honors coordinator advises students in the University Honors Program regarding departmental options. See the section on the University Honors Program in this catalog for further details.

## Pre-engineering Program

Students may receive two bachelor's degrees in a five year period through the cooperative pre-engineering program offered by the American University and either Washington University in St. Louis, or the University of Maryland at College Park. See the pre-engineering section under the College of Arts and Sciences in this catalog for more information.

## B.A. or B.S. in Interdisciplinary Studies

This program is designed for students who wish to construct their own major programs of study in accordance with their needs, capabilities, and interests. The initiative in formulating an interdisciplinary major is left to the student. The student has the responsibility to determine the central concept around which the program is constructed and to formulate in writing a list of all courses—major, related, and tool—which are to serve as requirements for the program.

The student must secure the advice and approval of three faculty members: one major adviser, who must be a full-time faculty member, and two sponsors. The three faculty members should represent the various disciplines involved in the interdisciplinary field. The major faculty adviser will advise the student for the rest of the student's undergraduate career. The two sponsors will assist the major adviser in areas outside his or her field.

### Admission to the Program

As a rule, final written application to the program and interviews should be made no later than the first semester of the junior year and no earlier than the second semester of the freshman year. Students must have at least a 2.50 grade point average (on a 4.00 scale) to be accepted. A student applies for permission to undertake an interdisciplinary major to the dean of the school or college in which he or she is enrolled. If the focus of the interdisciplinary program requires a change of college or school, the student must affiliate with the appropriate division.

An outline of the student's program submitted for approval must include:

1. A statement of the central concept of the major and an explanation of its interdisciplinary character.
2. A statement demonstrating that existing programs do not satisfy the educational needs or vocational goals of the student.

## 228 Interdisciplinary Degree Programs

3. An outline of the academic requirements of the major, including a list of all required courses and a tentative schedule for their completion. Independent study courses must be outlined if included in the proposal.
4. A Declaration of Major form, which must specify the name of the major and whether a B.A. or a B.S. degree is to be awarded.

### Majors

Individually designed majors focused on an interdisciplinary theme

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course in an approved sequence from each of the five curricular areas.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- A total of 42 credit hours with grades of C or better including 6 credit hours of independent study or senior seminars and 36 hours selected to form an academically sound, unified, and well-defined program:  
The area of concentration may not be the focus of any current degree program offered by the American University, and the central concept must be interdisciplinary. A random collection of courses taken from several departments does not constitute an acceptable interdisciplinary program. Each program should be designed to give the student the fundamental skills and background knowledge relevant to the specific interdisciplinary area. Courses which a student has already taken at the American University, or which the university has accepted in transfer, may be counted as part of the interdisciplinary major requirements when they are clearly within the proposed interdisciplinary field.
- Six credit hours in two independent study courses or senior seminars under the direction of the major adviser constructed to unite the various aspects of the interdisciplinary program. With the adviser's approval, the student may substitute an internship course under the adviser's direction, a 500-level seminar, or cooperative education field experience for one of the two special courses.
- Twenty-seven of the remaining 36 credit hours must be upper level (as defined by the teaching units that offer them), and it is usually advisable to include at least two 500-level courses, although in certain cases this may not be possible.

A maximum of 18 credit hours of work completed prior to the semester in which application is made may be included in the program.

### University Honors Program

Departmental Honors coordinators advise students in the University Honors Program regarding honors options. See the section on the University Honors Program in this catalog for further details.

## Minor in Interdisciplinary Studies

Individually designed minors focused on an interdisciplinary theme

### Admission to the Program

Admission to an interdisciplinary minor is governed by the same considerations as stated above for interdisciplinary majors except that approval is required by two rather than three faculty members. The academic coordinator for interdisciplinary studies is available to assist students in formulating interdisciplinary minor programs.

### Requirements

- A total of 24 credit hours of course work selected to form an academically sound, unified, and well-defined program. The area of concentration may not be the focus of any current degree program offered by the American University, and the central concept must be interdisciplinary.
- Nine of the 24 credit hours must be taken at the 300 or 400 level.

In addition to the 24 credit hours of course work, the student may unify the minor by taking 3 credit hours of independent study or research, senior seminars, or cooperative education field experience focused on the central concept of the minor.

No more than 6 credit hours of courses used to satisfy the distributive requirement may be used to satisfy the requirements of the interdisciplinary minor. Courses used to satisfy the university English requirement may not be used to satisfy the requirements of the interdisciplinary minor.

## GRADUATE PROGRAMS

The American University currently offers the following degrees jointly administered by the various schools of the university:

- **J.D./M.A. in Law and International Affairs**, offered by the School of International Service and the Washington College of Law (see the School of International Service chapter for admission and degree requirements).
- **J.D./M.S. in Law and Justice** offered by the School of Public Affairs and the Washington College of Law (see the School of Public Affairs chapter for admission and degree requirements).
- **J.D./M.B.A. in Law and Business** offered by the Kogod College of Business Administration and the Washington College of Law (see the Kogod College chapter for admission and degree requirements).

## M.A. or M.S. in Interdisciplinary Studies

### Admission to the Program

Graduate students interested in constructing an interdisciplinary master's program must first be admitted to a school or college or teaching unit of the university. In applying for admission, prospective graduate students may inform the faculty and teaching units of their interdisciplinary goals. In this manner the student unofficially explores the possibilities of obtaining faculty support for the desired interdisciplinary program.

Graduate students interested in this program should complete a major program form available in the office of the dean of the school or college. This completed form, along with a written statement of the concept of the program, and the letter of admission to a school or department of the university will serve as the admission packet for entrance to the program. Once this packet receives the approval of the dean of the school or college to which the student has been admitted, it will serve as the official record of the student's interdisciplinary master's program.

All programs must have the approval of three faculty members, at least one from each of the two or more disciplines involved in the interdisciplinary field. The responsibility for securing the advice and signature of the three faculty members is left with the student in consultation with the office of the dean. The student should select one of the faculty advisers, who must be from the admitting unit, as the primary adviser.

### Majors

Individually designed majors focused on an interdisciplinary theme

### Degree and Major Requirements

- A total of 30 credit hours of graduate work for the master's degree, including 6 credit hours of research

credit either in writing a thesis or in completing special research seminars:

At least 24 of the 30 credit hours, including the thesis or research sequence, must be completed in residence. The individually designed interdisciplinary master's program allows graduate students to design their own M.A. or M.S. programs built around a central theme that cuts across various disciplines. Every program must form an academically sound area of concentration defined by a central concept. The area of study must not duplicate the program of any master's degree offered by the university. The central concept must be explained in a written statement attached to the application for approval of the master's program.

- One comprehensive examination:  
The subject and scope of the examination are determined by the student and advisers at the time of initial approval of the interdisciplinary field. A statement detailing the provisions for the examination (who will draw it up, areas covered, and who will evaluate it) must be submitted with the application to the office of the dean of the college. Unless otherwise indicated, the faculty who approve the program take responsibility for drawing up, administering, and evaluating the comprehensive examination.
- Thesis option: 6 credit hours of thesis research  
Nonthesis option: two research seminars for 6 credit hours at the 500 level or above with grades of B or better. These research-oriented courses should serve to unify the elements of the program.  
Students must specify which option has been chosen and indicate which courses will be taken (for the non-thesis option), or the subject of the thesis and members of the thesis committee (for the thesis option).





# Adult and Continuing Education

Education and training for adults at the American University is a continuous, integrated effort which meets the needs of members of the local, national, and international communities.

The American University serves the educational needs of adults through full- or part-time study by helping them determine realistic personal and professional educational goals, enrich their knowledge, and improve their technical and professional qualifications. To this end, the university designs and implements academically stimulating programs for lifelong education and learning through evening, weekend, off-campus, and contract educational programs, and through certificate programs and noncredit seminars. Adults may earn undergraduate and graduate credit without formal admission to degree status. If admitted to degree status, adults earn their degrees in the same fashion as full-time students.

## Nondegree Student Status

Adults who wish to take credit courses with degree-seeking students but are not ready to apply for admission may do so as nondegree students. Credits earned in nondegree student status may transfer into degree programs. Nondegree students register through the University Program Administration and Advising Center (UPAC), McKinley Building room 153. For information on nondegree student status, call UPAC at (202) 885-2500.

## Return-to-School Programs

The American University has a long-standing commitment to serve the educational needs of adults. The university has designed its return-to-school programs for adults who wish to begin or resume work towards a bachelor's degree, for adults who may earn credits for life experience, and for those who wish to pursue noncredit professional development opportunities. Evening orientations are held at least once a month both on campus and at several

off-campus locations. For an orientation schedule, call the Office of Return-to-School Programs, (202) 885-3930.

## Credit for Life Experience

The Assessment of Prior Experiential Learning (APEL) program enables adults to earn undergraduate academic credit for life experience gained through work, volunteer activities, military service, travel, and community service. The APEL program assists adults in translating their years of experience into college credit. Students describe, analyze, and document their learning experiences. University faculty members assess the resulting portfolio and award academic credit based on the depth and quality of the presented work. Students can earn up to the equivalent of one year of full-time study. Up to half of these credits but no more than 12 may be applied toward the university residency requirement.

The APEL program is designed for adults who have been out of high school for at least eight years. Its curriculum consists of two sequential courses. Issues, Ideas, and Words is a literature course focused on critical reading, effective writing, and analytical thinking. This course provides adults an important introduction to the skills necessary for success in the preparation of their portfolio and subsequent university course work. During the second course, Documentation and Analysis of Field Experience, students identify, document, and analyze their experiences and produce the portfolio which is assessed by a faculty member for possible credit award.

For further information about the APEL program call (202) 885-3930 or write to the Director, Return-to-School Programs, Nebraska Hall, The American University, Washington, DC 20016.

## Community Studies

The College of Arts and Sciences and the Office of Return-to-School Programs offer an undergraduate Certificate in Community Studies to new adult students admitted to the Community Studies Program. After completing the

certificate, students usually continue on to fulfill the requirements for a bachelor's degree. The program draws together the resources of an urban university and the community, emphasizing traditional academic disciplines. All courses are fully accredited, transferable, and open to all university students.

The curriculum is designed to meet the educational needs of adults who seek professional or personal advancement through part-time study. Academic and diagnostic counseling services are available to assist students in planning their academic programs. An orientation and study skills workshop is available. The required curriculum meets the needs of students who have been out of school for a number of years.

This certificate is often an ideal entry point to the university for those students who are members of population groups under-represented in U.S. colleges and universities. The program places emphasis on adults working together to meet university requirements while receiving support from a broad range of university services. These services will vary depending on individual need but may include tutoring, structured study groups, study skills workshops, and writing workshops.

Students in the Community Studies Program may be eligible for financial assistance. Preference in awarding the assistance will be given to students who demonstrate need, who are residents of the District of Columbia, who are members of populations under-represented in U.S. colleges and universities, and who are members of the first generation of their family to attend college.

For further information on the Community Studies Program, the certificate program requirements, and financial assistance, contact the Return-to-School Program at (202) 885-1260.

### **Program Requirements (18 credit hours)**

#### **College Writing Requirement**

Students enter the program at one of the following two points based upon their ability, as determined by a writing assessment administered by the Department of Literature.

- 23.102 College Writing (3)  
or  
23.205 Issues, Ideas, and Words (3)  
Students take their next writing course depending on their starting point:
- 23.103 College Writing Seminar (3) (for students who took 23.102)  
or  
23.101 College Writing Seminar (3) (for students who took 23.205)

Students participate in special advising sessions, workshops, tutorials and structured study groups on an as needed basis while they are enrolled in the college writing program.

- 23.110 College Reading (3) (taken along with the second writing course)

#### **College Mathematics Requirement**

- 41.150 Finite Mathematics (3)  
Students who are prepared at this level participate in Community Studies Program study groups in mathematics, designed in cooperation with the Department of Mathematics and Statistics.

Students not academically prepared to take Finite Mathematics enroll in 41.022 Basic Algebra (0 credit) or a Pre-Algebra Workshop to prepare for Basic Algebra. These non-credit courses prepare students to take Finite Mathematics.

### **General Education Requirement**

Students choose, in consultation with the Community Studies Program adviser, either two foundation courses or one foundation course and one second-level course. Students may choose courses that enhance their understanding of their own social or cultural experience as their first two General Education courses.

Students completing the 18 credit hours above will be awarded the Community Studies Certificate of Achievement.

## **Associate in Arts**

This program is designed to serve the educational needs of high school graduates who seek professional or personal advancement through either full- or part-time study.

### **Admission to the Program**

Any student admitted to degree status at the American University is eligible for admission to this program.

### **University Requirements**

- A total of 60 credit hours with grades of C or better
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### **General Education Requirements**

- A total of 24 credit hours to include one foundation course in each of the five curricular areas and one second-level course in three of the five curricular areas, in an approved sequence.
- No more than 6 credit hours may be taken in the same discipline.

## **Bachelor of Arts in Liberal Studies**

This program is designed for students eight years or more out of high school who seek a flexible degree program that encourages them to bring together their personal and professional goals in the design of their academic major. The Bachelor of Arts in Liberal Studies major encourages students to combine liberal arts studies with a specialization. Specializations are available in more than 40 areas which encompass all minors offered by the American University.

### **Admission to the Program**

All students must apply to the Bachelor of Arts in Liberal Studies program by writing a proposal stating their core and specialization courses and an accompanying 300-400

word essay explaining their goal and the relationship among chosen areas and courses.

Students interested in being admitted to the Bachelor of Arts in Liberal Studies degree program should talk initially with an academic counselor in the Office of Return-to-School Programs (RTS). Once admitted to the program, academic advising will be provided by RTS as well as the faculty and academic counselors from the appropriate teaching unit.

### University Requirements

- A total of 120 credit hours
- Six credit hours of college writing
- Three credit hours of college mathematics or the equivalent by examination

### General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course from each of the five curricular areas in an approved sequence.
- No more than 6 credit hours may be taken in the same discipline.

### Major Requirements

- Complete a 42–48 credit hour major with grades of C or better, as outlined below.

The major consists of a 24 hour core area and an 18–24 credit specialization, both of which offer a number of structured alternative choices.

#### Core Area

Bachelor of Arts in Liberal Studies students are required to take 24 credits chosen from fields of study in one of three core areas: the humanities, the social sciences, or sciences/mathematics.

The core area must include course work in four fields of study. Six credits are to be taken in each field; at least 3 credits in each of the four fields must be earned in a course numbered 300 or higher. *Note:* for students taking the Sciences/Mathematics core, a minimum of 6 credits in total must be taken in courses numbered 300 or higher. No more than three courses taken for General Education credit may also count toward core area requirements.

#### Fields of Study by Core Area

##### Humanities

Art  
Art History  
Foreign Language  
Jewish Studies  
Literature  
Performing Arts  
Philosophy  
Religion

##### Social Sciences

American Studies  
Anthropology  
Communication  
(designated courses) •  
Economics  
Education  
(designated courses) •  
History  
Political Science  
Psychology  
(designated courses) •  
Sociology

##### Sciences/Mathematics

Biology  
Chemistry  
Computer Science  
Information Systems  
Mathematics  
Physics  
Psychology  
(designated courses) •  
Statistics

\* Designated courses: Academic counselors in the College of Arts and Sciences and the Return-to-School Programs Office will provide students with a list of approved courses.

### Specialization

In addition to the core area courses, students in the Bachelor of Arts in Liberal Studies program are required to complete 18–24 credits in a specialization. This specialization may be chosen from the list of university approved minors in the introductory chapter of this catalog. *Note:* if the minor taken for the specialization requires 24 or more credits, student may request reducing their core requirements from 24 to 21 credits. However, the core must still include at least 18 credits offered by the College of Arts and Sciences.

Students may select a specialization that complements their core area, or they may choose a specialization that is a new area of study. In all cases the student is encouraged to design a core area and a specialization that reflects the student's particular interests and goals.

Requirements for the specialization in the Bachelor of Arts in Liberal Studies degree are met when a student completes the requirements for a minor approved for the program. No more than two courses taken for General Education credit may be applied to a student's specialization. See "Fields of Study" in this publication for a list of university minors currently approved for this program.

## Weekend Programs and Professional Studies

The University Programs division offers credit and non-credit programs designed to meet the career and professional needs of adults. Programs offered include seminars and weekend master's degree programs in print and broadcast journalism, public communication, and information systems. (For information on other weekend programs, see the School of Public Affairs chapter.)

### Master of Arts in Communication: Public Communication

The School of Communication offers a weekend part-time graduate program leading to a Master of Arts degree in Public Communication. The program's roots are in communication research, and its emphasis is on developing communication generalists who can apply communication and management theories to public relations practice. The program accommodates working adults who want to gain the essential skills to effectively and ethically convey the issues of contemporary society in a number of areas such

as corporate public relations, government and political media relations, direct media, arts communication, and public interest communication.

Courses required for this option meet on Saturdays and can be completed in 20 months. For more information about the program call the University Programs Administration and Advising Center (UPAC) at (202) 885-2500.

### **Master of Arts in Communication: Journalism and Public Affairs (Print Track)**

The School of Communication offers a weekend part-time graduate program leading to a Master of Arts degree in Journalism and Public Affairs. The program accommodates working adults interested in print journalism and the reporting of public policy issues. Participants in the program will develop an understanding of the ethics, credibility, legal aspects, and economic realities of the American media while mastering and refining the reporting, writing, and editing skills necessary to excel professionally. Students work with faculty members who are experts in the field and who have a genuine interest in the students' progress and professional goals.

Courses required for this option meet on Saturdays and can be completed in 20 months. For more information about the program call the University Programs Administration and Advising Center (UPAC) at (202) 885-2500.

### **Master of Arts in Communication: Journalism and Public Affairs (Radio and Television Track)**

The School of Communication offers a weekend part-time graduate program leading to a Master of Arts degree in Journalism and Public Affairs designed for professionals who want to become proficient in electronic journalism. Students explore the values and realities of the journalism profession while gaining competence in the practical skills that are required to create and produce news and public affairs programs. Working with state-of-the-art equipment, participants will research and produce news reports and participate in the weekly creation of broadcast news programs.

Courses required for this option meet on Saturdays and can be completed in 20 months. For more information about the program call the University Programs Administration and Advising Center (UPAC) at (202) 885-2500.

### **Master of Science in Information Systems**

The College of Arts and Sciences offers a weekend part-time graduate program leading to a Master of Science degree in Information Systems. The program's focus is on the analysis, design, implementation, and management of the complex information systems used in most businesses and in the federal government. An outstanding benefit of this program to students and their employers is that assignments focus on the application of techniques and methodologies in their own organizations. Courses include experientially based teaching methods. Electronic communications such as fax and e-mail augment the course of study to provide extended contact between students and faculty. The weekend graduate program in Information Systems is for professionals whose schedules make weekend classes, every third Friday and Saturday, a preferable alternative to full-time study. Students can complete the degree requirements in 24 months. For more information

please contact the University Programs Administration and Advising Center (UPAC) at (202) 885-2500.

## **Certificate Programs**

A certificate awarded by the American University at any level is an emblem of professional achievement widely recognized by corporate and government employers. Certificate programs consist of a prescribed sequence of credit courses concentrating in particular career fields. Most certificate programs consist of the core courses required for related degree programs. A maximum of 18 hours of academic credit earned may be applied later towards a degree. A student's acceptance into a nondegree certificate program, however, does not in any way assure later acceptance into a degree program. The Return-to-School Programs Office offers certificates in cooperation with the colleges and schools of the American University.

To be eligible for enrollment in an undergraduate certificate program, students must have completed high school or the equivalent. Eligibility for a graduate certificate requires completion of a bachelor's or advanced degree.

The following certificates are available for students enrolled in nondegree student status.

### **Chemistry**

Graduate Certificate in Toxicology

For more information, see the Department of Chemistry programs description.

### **Computer Science and Information Systems**

Graduate Certificate in Information Systems

Graduate Certificate in Information Resource Management (IRM)

For more information, see the Department of Computer Science and Information Systems programs description.

### **Economics**

Graduate Certificate in Applied Economics

For more information, see the Department of Economics programs description.

### **Language and Foreign Studies**

Undergraduate Certificate in Translation in

French, German, Russian, or Spanish

Graduate Certificate in Translation in

French, Russian, or Spanish

Certificate in Teaching English to

Speakers of Other Languages

For more information, see the Department of Language and Foreign Studies programs description.

### **Performing Arts**

Graduate Certificate in Arts Management

Graduate Certificate in Dance

For more information, see the Department of Performing Arts programs description.

### **School of Public Affairs**

Graduate Certificate in Organizational Change  
Graduate Certificate in Public Financial Management  
Graduate Certificate in Public Management

For more information see the Department of Public Administration programs description.

### **Statistics**

Undergraduate Certificate in Applied Statistics  
Graduate Certificate in Applied Statistics

For more information, see the Department of Mathematics and Statistics programs description.

### **Professional Development**

Graduate certificate programs can be designed to meet specific career or professional development needs. In conjunction with academic and faculty advisers, students develop a proposed sequence of courses which must be approved by the appropriate school or department. For information on these certificate programs, contact an academic adviser in the University Programs Administration and Advising Center at (202) 885-2500.

## **Workplace, Community, and International Programs**

### **At the Workplace**

Corporations, government agencies, and associations can take advantage of American University programs offered at the workplace. Options include certificate and degree programs or professional development workshops. The curriculum may be tailored to meet company training needs. Scheduling is flexible for the convenience of employees, and programs are particularly cost-effective for companies that provide tuition reimbursement. For more information about these programs call (202) 885-3990.

### **In the Community**

The university offers certificate and degree programs and courses throughout the Washington, D.C., Maryland, and Virginia areas. Programs are designed to meet the educational and personal needs of students who wish to attend the university at a location near their homes or places of employment. Programs and courses are also designed for organizations that want to encourage the educational or professional development of their employees. For more information about these programs call (202) 885-3990.

### **International Partnerships**

The American University's International Partnerships assist international organizations by working with them to meet their education and training agendas. International Partnership programs offer credit and non-credit training for groups and individuals. Programs of study are designed to meet specific training needs and can last from three days to three years. Students and professional trainees have access to university facilities and are instructed by American University faculty and experts in the Washington area. To enrich the educational experience, English language instruction, educational tours, and internships are often included in the program.

For more information about these programs call (202) 885-3990.

## **Institute for Learning in Retirement**

The American University has become nationally recognized for its leadership in providing continuing learning opportunities for older adults through its affiliation with the Institute for Learning in Retirement (ILR). In 1982 the ILR was established as a membership organization for persons in the metropolitan Washington, D.C., area who want to remain intellectually active in their later years. The program has grown rapidly to its present size of 400 members.

The ILR offers a unique opportunity for persons who are over the age of 50, retired or semiretired, who wish to continue their learning at the university level. Members of the Institute are men and women with varied career backgrounds. They elect a governing board and, through committees, design their own curriculum of noncredit courses and plan a variety of special activities, including lectures, tours, and special interest groups.

The curriculum consists of two ten-week terms, fall and spring, offering about fifty study groups each term. Study groups meet for two hours once a week and cover a wide range of subjects, from foreign languages, history, and current events to music, art, and philosophy. Courses are taught by study group leaders who are members of the ILR. Winter and summer intersessions provide additional opportunities for learning.

An annual membership fee entitles members to register in study groups without additional cost (except in certain special cases) and to participate in all other ILR activities. It also provides university privileges, including parking at a special rate, access to the library and dining hall, and attendance at lectures and cultural events for free or at reduced rates. Information about membership is available by calling the Institute for Learning in Retirement at (202) 885-3920.



Racers take their marks for the university's annual fun run to benefit the Red Cross.

# Special University Programs

## Cooperative Education Program

In order to integrate the academic curriculum with professional training, the Career Center's Cooperative Education Program enables students to earn elective credit for field experience related to their education and career goals. Participants may include one or more periods of work experience in their programs of study. Co-op placements are usually paid positions and can be full or part time. Positions are with businesses; local, state, or federal governments; or community and social-service organizations.

Full-time faculty from all university departments serve as faculty supervisors for the cooperative education program. Faculty guide and evaluate the co-op students' experiential learning process.

Cooperative education allows students to test skills and academic learning in the world of work; it also provides for entirely new learning opportunities. Co-op experiences enable students to explore academic and career options, make career decisions, and prepare for entry into either an advanced degree program or the professional job market. Personal development, acquisition of independent learning skills, and a balanced education are significant benefits to students participating in cooperative education.

### Admission

The program is open to all matriculating undergraduate and graduate students. Applicants must be in good academic standing and must obtain approval from appropriate academic advisers. Students must complete a full year as freshmen, a full semester as transfer students, or 9 credit hours as graduate students before they are eligible for placement. However, they may apply to the program at any time. Additional specific admission criteria may be stipulated by schools or departments.

Students must attend an orientation session, complete application forms, and obtain approval signatures before the program's deadlines: April 14 for the summer semester, September 1 for the fall semester, and November 22 for the spring semester. Working with a co-op coordinator,

qualified candidates are referred to cooperating employers. Students register in the program once they are selected for a position by an employer.

Application to the program does not imply a guarantee of placement, nor does it obligate students to accept offers of employment. However, once hired under the auspices of the program, a student must complete all employment and academic obligations agreed to at the time of registration, unless a specific written release is obtained from the director of cooperative education, together with a recommendation of the faculty supervisor.

### Degree Credit

Credit earned in the Cooperative Education Program may be applied as general elective credit to bachelor's and graduate degree programs. Undergraduate students earn 3 to 6 credit hours for each assignment. Undergraduate students who wish to earn more than 6 hours of credit for a single assignment must petition for approval from the appropriate faculty member. Graduate students must work in jobs specifically related to their major fields and may earn 3 credits. Six credits are sometimes available to graduate students, subject to the approval of their academic advisers (credit restrictions apply in some departments).

All jobs are reviewed and approved for credit by co-op faculty advisers. The credit value depends on the duration of the work periods and the content of the job. Students are required to demonstrate what they have learned by means of written journals, papers, reports, portfolios, conferences, or seminars. Specific requirements are set by co-op faculty advisers through their syllabi.

Students working full time under the program are considered full-time students by the university, and they may take only two additional courses during the work term.

### Enrollment

Undergraduates enroll in xx.392 Cooperative Education Field Experience (usually 3-9 credits) and graduate students in xx.692 Cooperative Education Field Experience (3-6).

Full-time placements may be for six-month periods (July through December or January through June) or for

four-month periods (September through December, January through April, or May through August).

## Special Options

### Cooperative Education in the Federal Government

These experiences offer both undergraduate and graduate students special eligibility for federal positions which can lead to noncompetitive appointments to career positions upon successful completion of the student's degree program.

### International Cooperative Education

Cooperative education opportunities abroad are available. Students should have a working knowledge of the language of the country in which they expect to be placed, and previous work experience. Several months' lead time is essential to work toward securing these jobs. Application deadlines are available from the Cooperative Education office in the Career Center, 5th floor Butler Pavilion.

## Washington Semester Program

Established in 1947, the Washington Semester Program provides intercollegiate programs for study in Washington of various aspects of public affairs. More than 350 students from over 200 colleges and the American University meet each semester to pursue full programs of seminars with decision makers and people involved in the policy process. Students also undertake an internship in their field of interest and complete either an intensive research project or a course elective from regular university offerings.

### Washington Semester in American Politics: National Government or Public Law

This is the original program and covers the American national governmental and political system as a whole. Institutions covered include the Congress, the executive branch, parties and interest groups, the courts, and the communications media; certain units focus on public law. The program is taught by members of the faculty of the School of Public Affairs.

### Washington Economic Policy Semester

Taught by faculty from the Department of Economics, this is an intensive examination of the macro and micro dimensions of policy making in the national capital. The program is designed for students with an interest in practical as well as theoretical matters. The focus is on stabilization policy in all of its aspects—theoretical, practical, and political; environmental and energy economics; the international economy and recent developments in the international monetary field; and the effects of the multinational corporation. Additional topics include tax policy, poverty and the attempts to reduce it, antitrust actions and the role of big business, and urban economic policy.

### Washington Semester in International Business and Trade

Washington, D.C. is the ideal laboratory for studying international business and trade. The first part of the pro-

gram explores major issues, such as export/import procedures, foreign investment, and political risk analysis, while the latter part of the semester analyzes specific business opportunities in the Middle East, Latin America, Eastern Europe, and the Pacific Rim.

### Washington Semester in International Environment and Development

In this semester students combine hands-on experience on two continents by spending twelve weeks in Washington, D.C. and three weeks in Kenya (fall semester) or Costa Rica (spring semester) focusing upon global environmental preservation and sustainable development. In Washington, students study the policy-making process, U.S. international assistance policy, and such issues as the role of women in development, conservation financing, and the merits of voluntary action- and micro-enterprise support. Then, in Kenya or Costa Rica, students investigate the implementation of these policies in the field.

### International Politics and Foreign Policy Semester

Originated as the Washington International Semester in the fall of 1970, the International Politics and Foreign Policy Semester is taught by faculty from the School of International Service. The semester provides students with an opportunity to observe and study the manifold governmental, international, and private activities which contribute to the United States' position in world affairs.

### Washington Journalism Semester

The School of Communication offers this intensive study of journalism in Washington, D.C. The news stories and issues that make up Washington Journalism and the people and institutions that cover them are the focus of this one semester program. The program is not open to American University communication majors.

### Washington Justice Semester

Taught by faculty from the Department of Justice, Law and Society, this program provides a realistic picture of the processes of the criminal justice system. The program focuses on the interrelationships of the institutions operating in the criminal justice system (law enforcement, courts, corrections); the various occupational specialties; the problems of civil justice systems; the role of research; and the local, national, and international levels of the justice system.

### Washington Semester in Museum Studies and the Arts

Students in this program go behind the scenes at cultural institutions and attend presentations by professionals in the museum and arts world to acquire an in-depth understanding of key issues and concerns in the field. The semester offers students an opportunity to explore the rich collections and special exhibitions of some of America's major museums, to study the cultural history of the nation through its architecture and public monuments, and to learn key aspects of running museums and other cultural organizations.



### **Washington Semester in Peace and Conflict Resolution**

The goal of the Washington Semester in Peace and Conflict Resolution is to allow students to participate in building a global society based on peace, freedom, justice, and a diminished level of violence. Taught by faculty from the School of International Service, the semester includes conflict-resolution theory, history, and methodologies. Students are also introduced to the skills needed for nonviolent, nonexploitative conflict resolution. The semester is designed to broaden students' understanding of the forces that move a society—either toward a heightened level of violence and exploitation or toward positive social change.

### **Washington Summer Internship**

#### **Admission to the Program**

Students from colleges and universities across the United States are offered the opportunity to gain career-related, on-the-job experience through working and learning in the nation's capital. Students intern with a professional or government office four and a half days a week and attend an academic seminar the other half day per week. The seminar is in conjunction with the work experience. The program is open to students who are not currently enrolled at the American University. American University students should consult their academic departments concerning summer internship opportunities. The program is offered every summer for nine weeks. This course carries 3 undergraduate or graduate credit hours.

#### **Course Requirements**

56.500 Washington Summer Internship (3)

#### **Special Opportunities**

Work in a professional office as an intern, and gain valuable experience that will enhance your resume.

### **Washington Summer Seminar: A Pre-College Program for High School Students**

#### **Admission to the Program**

High school students from around the country are offered the opportunity to earn college credit and experience by studying in one of five fields: American Government and Policy Making, Media in America: Print and Broadcast Journalism, U.S. Foreign Policy, Justice and Law in America, and Environmental Policy/Science. This three-week residential program provides students with an early exposure to college life. The curriculum includes daily seminars with decision makers and leaders, field trips, and lectures by American University faculty. Upon successful completion of the course, students may have an official American University transcript sent to the college(s) of their choice. Each three week program is offered every summer in July, and can be taken with or without credit.

#### **Course Requirements**

56.100/.101 Washington Summer Seminar:  
American Government and Policy Making  
Justice and Law in America  
U.S. Foreign Policy  
Media in America: Print and Broadcast  
Journalism  
Environmental Policy/Science

### **Special Opportunities**

Meetings on Capitol Hill, field trips to various offices and agencies, exposure to a wide range of cultural activities.

## **Study Abroad Programs**

Study abroad programs offered through the American University provide students the opportunity to interact with public officials and political leaders through seminars. Programs in Brussels, Budapest, Buenos Aires, London, Madrid, Moscow, Paris, Prague, Santiago, and Vienna offer internship opportunities in such places as houses of parliament, government agencies, corporations, and other political and social organizations. Programs in Beijing, Copenhagen, and Rome allow students to select from a variety of liberal arts courses. Some of these programs may be used for the second-level course requirement in the General Education Program.

### **Beijing/Hong Kong Semester**

This program is offered every fall at the University of International Business and Economics (UIBE) in Beijing, China. Participants take courses in Mandarin language, Chinese economic cooperation and business practices, and Chinese civilization and history, and they conduct an independent study under the supervision of the resident director. Students live in dormitories on the UIBE campus and participate in extensive study tours to the other provinces of China. Includes a two-week field trip to Hong Kong and Guangzhou (formerly Canton)—the economic engines of China.

### **Brussels Semester**

This program, offered every fall and spring, is patterned on the Washington Semester model in that students have the opportunity to interact with foreign politicians and decision makers through seminars. Seminar topics include issues and problems in NATO strategy and burden-sharing; the impact of EC 1992 on member nations; NATO's future directions and arms control; East-West trade; and international economic issues. The program also includes internships with multinational corporations and a course on U.S.-Western European economic and trade relations. Participants in the program are accompanied by a member of the university faculty.

### **Budapest/Russia Semester**

This program is held every spring semester in cooperation with Lorand Eotvos University in Budapest. Seminars with politicians and decision makers will introduce students to the effort in achieving economic and political change in this prosperous Eastern European country. Internships are available in political organizations, business enterprises, and the media. A course on history and culture focuses on Hungary from the Hapsburg empire, through World Wars I and II, the Stalinist period, the 1956 Revolution, and events leading to the current transformation. The impact of modernization on societal values will give participants a deeper understanding of cultural norms in Hungary. Students travel to Russia for a two-week field trip to learn about the economy and politics of the region.

### Buenos Aires Semester

Patterned after the other study abroad programs, the Buenos Aires Semester, offered every fall, focuses on the political, social, economic, and international problems confronting Argentina and the region. In addition to seminars and lectures, participants have the opportunity to take a course on Argentine history and a course in Spanish. Those with a working knowledge of Spanish can participate in the internship component, working two days each week with one of many domestic and international organizations.

### Copenhagen Semester

The Copenhagen Semester is offered in cooperation with Denmark's International Study Program at the University of Copenhagen. Students can choose from a wide range of courses in general studies or international business that have Danish, Scandinavian, or European content and methods. The general studies curriculum includes such courses as Scandinavian Literature, Contemporary European Politics, Soviet Politics, Politics of the EEC, and art history courses. Students may enroll in such international business courses as Labor-Management Relations, Marketing in Europe, and East-West Business Relations. All classes are taught in English. The program is offered during fall and spring semesters.

### London Semester

The semester in London is offered every fall and spring. The program, which is patterned on the Washington Semester model, focuses on British political and economic institutions through seminars with decision makers and observers of British politics. In addition to the seminars, the program includes an internship component, a course on British theatre, media, and living with English host families. Through seminars, class discussions, lectures, and focused readings, the program provides a perspective of British society, politics, economics, and culture. Seminar topics include issues in British politics and society, Parliament, the cabinet and ministries, political parties, interest groups, the media, and the judicial process. Students in this program are accompanied by a member of the American University faculty.

### Madrid Semester

This program, offered every spring, is similar in focus to the Buenos Aires Semester. Participants are accompanied by a full-time faculty member from the American University who provides background lectures in addition to inviting guest speakers from the political, economic, and cultural sectors of Madrid. Students also have the opportunity to take a course in Spanish Culture and Civilization and courses in intensive Spanish at various levels. Those with Spanish proficiency may do an internship in a multinational organization. Participants also gain cross-cultural experience through field trips and homestays with Spanish families.

### Moscow Semester

This program, offered in the fall, is a unique opportunity to experience life in Russia and be a part of the important changes reshaping history. The program is hosted by the School of Journalism at Moscow State—the oldest and most prestigious Russian university. Enrollment is limited

to graduate and undergraduate students with at least two years of college Russian. Internships are limited and graduate students with proficiency in Russian will have first priority with various organizations in all areas of the media. All students take an intensive Russian language course and a 6-credit seminar in Russian Studies at the 500 level. In addition, each student will enroll in an undergraduate or graduate independent research project.

### Paris Program

In cooperation with Via Paris, the university offers a full year program in Paris. Students must have two years of college French to participate. Students take liberal arts courses through several Parisian universities. Accommodations are provided in French family homes.

In addition to the Via Paris program, the World Capitals Program offers a spring semester program with a concentration in world economy. Other course offerings include study in Paris civilization and culture, an internship component, and French language courses. There is a French language and economics requirement for admittance to the program.

### Prague Semester

This program is held every fall semester in cooperation with Charles University and the Film Academy (FAMU) in Prague. Accompanied by a university professor, students will have seminars with politicians, artists, film-makers, writers, historians, and other influential actors who are involved with the country's transformation to democracy and market economy. Courses in the Humanities and Social Science at Charles will focus on this remarkable transformation. At FAMU, students of film and media will have a "hands-on" opportunity to experience the technology and techniques of film and cinema in specific courses and practicum. Internships are also available in select areas.

### Rome Semester

The Rome program offers a semester or year of study with emphasis on European and Italian subjects. All courses are taught in English and are offered during the fall and spring semesters. The program provides instruction in socio-economic and political systems, art and architecture, history, and culture. Students also benefit from cross-cultural interactions with Italian student groups. Classes are frequently conducted in political party headquarters, on location with leading personalities of Italian film, art, and literature, and in museums and historical sites in and around Rome. All courses and faculty in the program are approved by the American University. Students can take courses in many fields, including history, art, political science, literature, Italian language, sociology, mathematics, and economics.

### Santiago Semester

In cooperation with the Las Condes University in Santiago, this program is held every spring semester. The seminar course, which brings politicians and decision makers to the class, focuses on Chilean transformation from a military state to civilian democracy. Internships with political and social organizations, as well as with emerging multinationals will be available to those with Spanish proficiency. Intensive Spanish at the intermediate and advanced levels are also available in lieu of the internship.

### Vienna Semester

The Vienna Semester, offered every fall and spring, is similar to the programs in London and Brussels in that participants have the opportunity to meet with representatives from the political arena, the diplomatic corps, industry, the press, and cultural organizations, and to attend focused lectures by the resident director. Participants with German-language proficiency can intern with the Austrian Parliament or agencies of the United Nations. Others can take an intensive German language course. German language requirement for admittance.

### Summer Study Abroad

See "Summer Sessions" below.

## English as a Second Language

The English Language Institute (ELI) offers regularly scheduled courses in English as a second language as well as special programs designed for sponsored groups of students. All regularly scheduled courses are designed to meet the specific needs of nonnative speakers of English who wish to attend universities in the United States. ELI's objective is to provide nonnative speakers with the opportunity to develop the linguistic proficiency and cultural awareness necessary for successful academic work. ELI accomplishes this objective through the courses and special workshops it offers in its two principal programs: the University Certificate Program and the Support Program. Both programs operate throughout the academic year and the summer session, with courses lasting fourteen weeks during the fall and spring semesters and twelve weeks during the summer.

### University Certificate Program

The University Certificate Program is an intensive program designed for full-time students. It satisfies requirements for full-time study for international students on F-1 (student) visas but does not carry credit. It is also open to students interested in enrolling on a part-time basis. To be eligible, prospective students must already possess basic competency in English and either be admitted to the university or qualify for enrollment as nondegree students.

Students in the certificate program take courses in grammar, reading, writing, and listening/speaking. In the fall and spring, they also enroll in special study-skills workshops and in integrated skills courses in particular content areas. Qualified full-time students in the program may take regular university courses for credit at no additional charge in place of courses in skill areas in which they are already proficient. University students not enrolled in the certificate program may take courses and workshops in the program as needed.

Upon successfully completing the program by passing at least three courses at its highest level, students are awarded a certificate of completion. They may then continue their studies as either admitted or nondegree students, taking courses in the Support Program concurrently with academic study.

Students placed in four courses in the Certificate Program are considered to be full time in that program and may not take academic courses concurrently. Exceptions require permission from both ELI and the student's adviser.

### Support Program

The Support Program is a nonintensive program designed to meet the needs of students beyond the certificate level who are ready to take academic courses. To be eligible, students must already have developed the English proficiency necessary for effective written and oral participation in graduate or undergraduate academic courses. Most students in the Support Program take academic courses concurrently with their English language studies. Three of the courses in the program offer credit and may be used to satisfy the university English requirement. Graduate students in the program enroll in workshops and a special seminar designed to assist them with their specific writing needs.

### Admission to the English Language Institute

ELI students come from one of three groups: those who are interested only in English-language studies and have not applied for admission to university degree programs; those who have been referred to ELI as part of the admissions process; and those who have been admitted to university degree programs but must first develop college-level proficiency in English. All admitted students whose first language is not English and who do not meet the criteria described under "International Student Information" are referred to ELI for English evaluation at the beginning of their first session. After evaluating these students, ELI either waives requirements for English studies or places the students in appropriate courses in the Certificate Program or the Support Program. Evaluations determine the required course sequence and the number of courses which may be taken outside the Institute.

## Summer Sessions

Students attending summer sessions may choose from over 400 courses in forty fields of study during six separate sessions. Students may also choose from a variety of special summer programs. A full complement of regular courses is scheduled to allow students to continue their progress toward a degree or certificate or to pursue academic directions they have been unable to explore during other terms. Many students use the summer for an internship or cooperative education placement.

Highly selective during the academic year, the university welcomes students in good standing at other colleges and universities to its summer programs.

### Institutes and Special Summer Programs

Institutes, featuring short-term credit and noncredit educational opportunities, are frequently offered during the summer by several academic units. The topics of these institutes vary widely and change from summer to summer. Recent programs have included: Campaign Management Institute; International Journalism Institute; Film

## 242 Special University Programs

and Video Institute; and Educating for Global Citizenship Institute.

### **Programs for Pre-College Students**

The university offers a variety of summer programs for college-bound high-school juniors, seniors, and recent high-school graduates. (For more information, see "Washington Semester Program," above.)

### **Summer Study Abroad**

Opportunities for unique study abroad programs are offered by American University professors through courses and institutes in their fields. Students have the opportunity to pursue particular themes in these programs. Programs change from one summer to the next, and the university usually offers three to five programs each summer.

## **BCIU Institute**

For thirty-five years, The Business Council for International Understanding Institute at the American University has been training and developing U.S. and foreign busi-

ness personnel and their families for work and life in other cultures. The BCIU Institute provides workshops weekly for corporate personnel and their families from more than 500 major international corporations and has had more than 30,000 graduates living in 162 countries throughout the world. Programs consist of face-to-face language instruction in 43 languages integrated into intercultural communication workshops for 162 countries. In-company programs are conducted for executives, managers, and technicians (and their families) in area and country studies, intercultural communication, international business negotiations, international business protocol, business English communication and presentation, and American Studies. All programs have varying degrees of intercultural communication. The faculty of resource persons number over 675 experts coming from the American University and other universities, governmental agencies, international organizations, and international business corporations. The BCIU Institute reflects and has advanced the state of the art in intercultural communication for international business effectiveness overseas.

For additional information, write to: Director, The BCIU Institute, The American University, Washington, D.C. 20016, telephone (202) 686-2771 or fax (202) 686-5923.

# Courses of Instruction

## Cooperative Education

### Undergraduate

**xx.392 Cooperative Education Field Experience (3-9)** May be repeated for credit, but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* completion of 30 credit hours of college courses, good academic standing with the university, approval of academic adviser, and placement by the co-op office. *Note:* departments may have additional prerequisites; refer to specific course listings.

### Graduate

**xx.692 Cooperative Education Field Experience (3-6)** May be repeated for credit, but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* completion of 9 credit hours of coursework, good academic standing with the university, approval of academic adviser, and placement by the co-op office. *Note:* departments may have additional prerequisites; refer to specific course listings.

## University Honors Program

**01.300 Honors Colloquium in Arts and Humanities /A (3)** May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

**01.301 Honors Colloquium in Natural and Mathematical Sciences /N (3)** May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

**01.302 Honors Colloquium in Social Sciences /S (3)** May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

**01.390 Honors Independent Reading Course (1-6)**

**01.490 Honors Independent Study Project (1-6)**

## American Studies

### Undergraduate Courses

**02.100 Creativity in American Life (3)** How Americans build traditions, create community, register rebellion, cope with contradictions, and dramatize shared values through expressive culture. Rotating topics include: festival and ceremony, symbols and icons, forms of wisdom, nostalgia, and advertising as metaphor. Each topic examines the complex relationships between the arts, their producers and performers, the audience, special occasions, and everyday life. May be repeated for credit within the same term; topic must be different. Usually offered every fall.

**02.140 Washington, D.C.: Life Inside a Monument (3)** Explores the unique nature of Washington as an international city, national capital, black-American cultural center, and home for its varied residents. Discussions include tensions between federal presence and local democracy, tourism, political and cultural activities, migration and immigration, geography and the cityscape and neighborhood life. Usually offered every fall and summer.

**02.202 American Dream/American Life /A, S (3)** Changing American ideals and experiences. An interdisciplinary study of key themes in American self-definition (e.g., equality, opportunity, the changing landscape) as articulated by theorists and as challenged by an increasingly diverse urban and technological nation. Emphasis on ordinary citizens as well as institutions. Usually offered every fall.

**02.210 Folk Traditions, Community, and Identity /A 2:2 (3)** Case studies of diverse social and ethnic groups—and their verbal, material, and ritual folk traditions—reveal the ways in which folklore reflects beliefs, value systems, regional and community identity, and history. Students interpret (and occasionally collect) traditions concerning religion, work, race and ethnicity, gender, class, age, and family life. Usually offered every fall. *Prerequisite for General Education credit:* 23.115 or 29.115 or 61.105. *Note:* not open to students who have taken 02.196

American Folk Traditions or 02.100 Creativity in American Life: Folk Traditions.

**02.230 Tribal Traditions / A 2:2 (3)** Cultural and spiritual traditions of tribal societies and their persistence despite Western expansion and enforced acculturation. Class activities highlight American Indian economics, political systems, and the place of language, oral literature, music, and ceremony in Indian societies. Similarities among indigenous societies of America, Africa, Asia, and the Pacific are stressed. Usually offered every fall. *Prerequisite for General Education credit:* 60.105 or 61.105. *Note:* not open to students who have taken 02.334 Contemporary American Culture: American Indian Experience and Tribal Talk.

**02.240 Poverty and Culture / S 4:2 (3)** Students explore and debate rival theories about the causes and consequences of poverty. Why poverty occurs, why certain people are poor, how poverty influences family and community life, and how the poor respond to their situation and sometimes try to change it. Usually offered every spring. *Prerequisite for General Education credit:* 03.150 or 19.100. *Note:* not open to students who have taken 03.341 Culture and Poverty.

**02.320 American Musical Traditions (3)** America's history can be written through its music. From early New England traditions through the contemporary period, this course examines our musical past. Topics include Anglo-American balladry, nineteenth- and twentieth-century classical and popular music, jazz, and the musical expression of such social movements as abolition, temperance, suffrage, labor and farming, war and peace. Offered irregularly.

**02.321 American Decades (3)** Political and economic affairs, international relations, social change, literature, drama, music, and fine and popular arts in one decade of American life. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

**02.324 Reinventing American Families (3)** Interplay in American life between symbols of proper families, ideas about what is natural, and Americans' diverse choices, commitments, and experiences as they make homes together. Topics include adoption, step-kinship, gay parents, single parents, class differences, ethnic variety, public policy implications. Offered irregularly.

**02.325 The Sacred and the Profane in American Life (3)** Ritual and taboo as replacing the sacred and profane in secular society. Rituals include holidays, myths, heroes, sports, public and intimate interactions, and music. Taboos cover animals and nature, freaks, stigma, the human body, sexuality, madness and suicide, drugs, violence, and death. Usually offered alternate springs.

**02.334 Contemporary American Culture (3)** Interdisciplinary exploration, through politics, ethnography, literature, film, and art, of institutions and attitudes with decisive influence on the shape and quality of contemporary American culture. Rotating topics include work, violence, visions of the future, the culture business, women and men, women in the popular media, and language in the United States. May be repeated for credit in the same term; topic must be different. Usually offered every fall.

**02.341 Research on the City of Washington (1-6)** Student group research on special topics and projects in Washington. Offered irregularly.

**02.390 Independent Reading Course in American Studies (1-6)**

**02.392 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication. *Prerequisite:* authorization of program director.

**02.400 Interpreting American Culture (4)** Seminar in American Studies theory and methods. Classic, emerging, and controversial approaches to American culture through such mixed media as architecture and photography, original documents and literary criticism, folk life and foodways, television and music. Usually offered alternate springs.

**02.410 Senior Thesis I (3)** Original interdisciplinary research as a capstone to the major. Students also meet in a seminar to compare experiences and discuss ways to translate American Studies theory and method into practical and professional concerns. Usually offered every fall. *Prerequisite:* 02.400.

**02.411 Senior Thesis II (3)** Usually offered every spring. *Prerequisite:* 02.400.

**02.490 Independent Study Project in American Studies (1-6)**

**02.491 Internship in American Studies (1-6)** Practical experience in a local organization such as a government office, museum, arts agency, or social action group. How to translate American Studies theory and method into professional skills and opportunities. Interns also meet in a seminar to discuss and interpret these experiences. *Prerequisite:* Authorization of instructor and department chair.

## Graduate and Advanced Undergraduate Course

**02.590 Independent Reading Course in American Studies (1-6)**

## Anthropology

### Undergraduate Courses

**03.110 Culture: The Human Mirror / S 3:1 (3)** People around the world create and use systems of symbols to express their identities as members of social groups. This course draws on diverse life-cycle experiences in tribal, state-level, and post-colonial societies to explore ways that both tradition and contact with other cultures contribute to the cultural pluralism of the contemporary world. Usually offered every term. *Note:* not open to students who have taken 03.100 Cultures of the World.

**03.150 Anthropology of American Life / S 4:1 (3)** How race, gender, class, ethnicity, age, and region affect Americans' experiences of interwoven historical, economic, political, scientific, religious, and cultural processes. Usually offered every fall. *Note:* not open to students who have taken 03.100 Cultures of the World.

**03.200 City as Community / S 4:2 (3)** The city, as one type of human community, is examined in terms of its special social and cultural features. Students carry out

field research in the Washington, D.C. metropolis to gain first-hand experience in research methods (and to use their comparative study of cities for interpreting local knowledge) for such topics as ethnicity, kinship, class, and gender. Usually offered every spring. *Prerequisite* for General Education credit: 03.150 or 65.100. *Note*: not open to students who have taken 03.338 City as Community.

**03.201 Cultural Anthropology /S (3)** An exploration of cultures to document their critical importance as the unique tool of human survival. The course provides the framework for an appreciation of cultural differences and similarities and thereby increases understanding of the complex world with which we must cope. Usually offered every spring.

**03.210 Roots of Racism and Interracial Harmony /S 3:2 (3)** Examines why racism has often characterized the relations between human groups, and compares these cases with other societies which have been nonracist. Social stratification, ideas about the nature and role of individuals, and economic factors are considered within and across cultures. The course links analysis of the past to possible social action. Usually offered every term. *Prerequisite* for General Education credit: 33.140 or 29.120. *Note*: not open to students who have taken 03.100 Cultures of the World: Roots of Racism.

**03.215 Sex, Gender, and Culture /S 3:2 (3)** How economic systems, social structures, and values construct and redefine biological distinctions between women and men. Topics include gender in egalitarian societies; origins and consequences of patriarchy; gay and lesbian cultures; gender, politics, and social change. Case studies from tribal, state-level, and post-colonial contexts. Usually offered every term. *Prerequisite* for General Education credit: 03.110 or 23.150. *Note*: not open to those who have taken 03.340 Sex, Gender, and Culture.

**03.220 Living in Multicultural Societies /S 3:2 (3)** Foreign trade, foreign aid, tourism, and migration establish ties between peoples and cultures in spite of political and historical divisions. This course examines the effect of international migration and the growing "one-world" economy on the daily lives of peoples around the world and in the emerging multicultural urban centers in the United States. Usually offered every spring. *Prerequisite* for General Education credit: 33.110 or 33.140.

**03.225 Language and Human Experience /A 1:2 (3)** Language and its contribution to creativity. The course explores how knowledge of language enriches human experience. Topics include imagery and metaphor building through language; the effects of topic, speaking situation, and gender on creativity in tribal, state-level, and post-colonial contexts; and ways written language recasts and redefines human imagination. Usually offered every fall. *Prerequisite*: permission of instructor or if taken for General Education credit, 23.120 or 67.115. *Note*: not open to students who have taken 03.337 Anthropology of Language.

**03.230 India: Its Living Traditions 3:2 (3)** The rich diversity among peoples and cultures of India through time and the significance of various traditions for contemporary life. Individual experiences of caste, class, gender, and sect are examined, as are outside influences on social patterns

and modes of thought, revealing complex interplay between tradition and modernity. India and the West. *Prerequisite* for General Education credit: 03.110 or 61.185 or 65.110.

**03.251 Perspectives in Cultural Anthropology (3)** Exploration of a variety of current perspectives in cultural anthropology. The kinds of questions anthropologists ask in seeking to understand cultural variation and diverse human experience. Relevance of anthropology to life in a changing, multicultural world. Usually offered every fall.

**03.252 Human Origins /N (3)** The contributions that physical anthropology and archaeology can make toward an understanding of the origins and development of humankind. Topics include genetics, the principles of evolution as applied to humans, the nonhuman primates and their behavior, human fossils, and the archaeology of the New and Old Worlds. Usually offered every term. *Note*: not open to students who have taken 03.202 Human Origins.

**03.253 Introduction to Archaeology (3)** Introduction to archaeology as a subfield of anthropology. Topics include the history of archaeology, methods of archaeological excavation and analysis, the historical archaeology of seventeenth and eighteenth century America, paleolithic archaeology in the Old World, the prehistory of North and South America, and other current discoveries and topics within the field. Usually offered every spring. *Note*: not open for credit to students who have taken 03.334 Modern Archaeology.

**03.254 Language and Culture (3)** Examines connections between language, culture and society. Topics include: grammars as systems of knowledge; language and cognition; structure of everyday discourse; language diversity; speech communities; language change; literacy and language planning. Usually offered every spring. *Prerequisite*: 03.251 or permission of instructor.

**03.331 Human Variation (3)** The genetic and environmental factors which influence modern human variation. Topics include genetics, growth and development, disease, nutrition, and adaptation. The role of biological evolution in determining present characteristics as an important unifying concept. The role of culture in this evolution is considered throughout the course. Usually offered every spring.

**03.335 Culture and the Self (3)** An exploration of the ways that cultural forces influence biographical pathways, life experiences, the patterning and expression of emotions, and the experience of mental illness. Emphasis on the emergence of the self in everyday interaction and at the intersection of language and thought. Usually offered alternate falls.

**03.336 Social Structure (3)** Comparative study of structure and function of political, religious, and kinship arrangements in simple and complex societies. Topical emphasis varies for different semesters. Emphasis on conflict and integration, ideas and beliefs as symbols of social relations, and problems of individual choice. Usually offered alternate springs.

**03.339 Culture Area Analysis /S (3)** Examinations of particular culture areas to provide insight into the conditions that produced distinctive cultures in certain geo-

graphical regions. Examples are North American Indians, Latin America, Mexico and Central America, North American ethnic groups, Europe, India, Africa, China, and Japan. Meets with 03.639. May be repeated for credit in the same term; topic must be different. Usually offered every term.

**03.342 Women and Work (3)** Work roles of women throughout the world. Analyzes historical and contemporary changes in the notion of work and women's labor in tribal societies and in Western societies since the Industrial revolution. Topics include unpaid work within the household and for family enterprises, as well as formal salaried enterprises. Usually offered alternate falls.

**03.350 Special Topics (3)** Comparison and analysis cross-culturally and within selected culture areas. Topics include: cultural perspectives on sports, war and aggression, rites of passage, food and culture, rise of civilization, archaeology of the Chesapeake Bay region, North American prehistory, and historical archaeology. May be repeated for credit within the same term; content/topic must be different. Offered irregularly. *Prerequisite:* 03.251 or permission of instructor.

**03.390 Independent Reading Course in Anthropology (1-6)**

**03.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**03.430 Magic, Witchcraft, and Religion /A (3)** A comparative study of magic, witchcraft, and religion in Western and non-Western societies. Topics include an analysis of ritual behavior and the ritual process, mythology, sorcery, and revitalization movements. Usually offered every fall.

**03.431 Taboos (3)** Exploration of those persons, items, experiences, and acts which so frighten and repel humans that they try to prohibit them. Includes discussion of topics rich in taboo and sensitivity, including: sexuality, witchcraft, cannibalism, human-animal relations, madness, and death. Why taboos emerge, how they are enforced, and when they are violated. Usually offered alternate springs.

**03.445 Developments in Anthropological Theory (3)** Current theory and its historic roots. A capstone course drawing on method and theory in archaeology, linguistics, sociocultural anthropology, and physical anthropology. Usually offered every fall. *Prerequisite:* junior or senior standing in anthropology. *Note:* Not open to students who have taken 03.545 Developments in Anthropological Theory.

**03.450 Senior Seminar (3)** Issues in description and analysis viewed from the perspective of writing ethnography. Comparative exploration of anthropological forms of writing. Relation to travel writing, diaries, and novels. Focus on problems such as audience, authority, and objectification. Attention to contemporary experimental ethnographies. Usually offered every spring. *Prerequisite:* senior standing in anthropology.

**03.490 Independent Study Project in Anthropology (1-6)**

**03.491 Internship in Anthropology (1-6)** Experience in local agencies involving the transfer of anthropological

thinking to practical concerns. Usually offered every term. *Prerequisite:* permission of department chair and instructor.

**03.498 Senior Thesis in Anthropology (1-6)** Opportunity for qualified undergraduates to carry out anthropological research under supervision of members of the faculty. Development of a written paper and participation in senior thesis seminar are required. A maximum of six credit hours may be earned under this course number. May be repeated for credit but not within the same term. Usually offered every term. *Prerequisite:* permission of department chair.

## Graduate and Advanced Undergraduate Courses

**03.531 Archaeology (3)** Topical courses in archaeology. Areas and topics offered include: historical archaeology, artifact analysis, archaeology of the Potomac Valley, the archaeology of North America and Mesoamerica, and archaeological laboratory practice. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* 03.253 or permission of instructor.

**03.532 Culture Change (3)** All significant ideas about the nature of human culture center either on issues of cultural stability or change, and stability itself is often a result of change. As anthropology focuses on today's world, an understanding of culture change is especially important. This course explores ways to understand culture change. Usually offered every spring. *Prerequisite:* 03.251 and one additional course in cultural anthropology, or graduate standing.

**03.534 Economic Anthropology (3)** Discussion of the principal issues linking anthropological method and theory to the nature and organization of production, distribution, and consumption in Western and non-Western society. Substantive and formalist approaches to the description of economic institutions. Subsistence and commercial production, reciprocity and redistribution, market exchange, and aspects of consumption are examined with reference to a variety of case studies. Usually offered alternate springs. *Prerequisite:* 03.251 and one other course in cultural/social anthropology, or permission of instructor.

**03.535 Ethnicity (3)** Ethnicity. Ethnic identity. Ethnocide. The reaction to these terms ranges from pleasure and pride to horror. Ethnicity all over the world has become a means whereby groups in large, complex societies defend their interests, avoid alienation, and create powerful rituals of self-preservation and defense. African, European, and American ethnic attitudes and experiences are discussed and compared to illustrate these themes. Usually offered alternate springs. *Prerequisite:* one course in social or cultural anthropology, e.g. 03.251.

**03.537 Topics in Language and Culture (3)** Comparative perspectives on the interrelationships of cultural and linguistic patterns in different societies. Case studies focus on language variation and pluralism as related to verbal creativity, social hierarchies, gender diversity, language history, and colonialism and nation building. May be repeated for credit, but not within the same term; content/topic must be different. Usually offered alternate



summers. *Prerequisite:* permission of instructor or one course in anthropology or linguistics.

**03.542 Principles of Applied Anthropology (3)** The role of anthropology in formulating policy and implementing social and cultural change, and in community self-determination, health, education, urban and ethnic affairs, poverty, and crime. Usually offered every fall.

**03.543 Anthropology of Development (3)** Anthropological approaches to the analysis of economic development and change, with attention both to development theory and to practice. Development problems as perceived at the local level, contemporary development concerns, and the organization of development agencies and projects are considered. Usually offered every fall.

**03.544 Topics in Applied Anthropology (3)** A discussion of case studies and examples illustrating the application of anthropological method and theory to solving practical problems in contemporary society. Regularly recurring topics include: anthropology of education, bilingual education, medical anthropology, health and nutrition, public archaeology, and anthropology of public policy. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

**03.550 Ethnographic Field Methods (3)** Using a series of research exercises, students learn how to collect genealogies, gather censuses of research populations, conduct directed and nondirected interviews, map research areas, work with photographic data, collect life histories, observe as participants, write research proposals, and evaluate data. Ethical and methodological fieldwork problems are stressed throughout. Usually offered alternate falls.

**03.552 Anthropological Research Methods (3)** An introduction to research methods used within the field of anthropology, including ethnography, the distinctive tool of the field. Includes research design, data collection, quantitative and qualitative analysis. Ethics and pragmatics of research are discussed, including research funding and proposal writing. Usually offered every spring. *Prerequisite:* two courses in anthropology or graduate standing.

**03.553 Data Banking and Multivariate Techniques (3)** A consideration of storing and retrieving anthropological data and analysis. Both small and large scale data banks are studied. Analysis of the retrieved data using such techniques as factor, cluster, and proximity analysis is also covered, with a consideration of computer graphics for anthropological use. Usually offered alternate falls. *Prerequisite:* 03.552 and 42.202.

**03.560 Summer Field School: Archaeology (3-9)** Active participation in the excavation of an archaeological site. Training varies depending on the site, but usually includes site surveying, archaeological engineering, techniques of excavation, flora, fauna, and soil analysis, field laboratory practice, and on-site computer data processing. May be repeated for credit but not in the same term; topic may be the same. Usually offered every summer.

**03.590 Independent Reading Course in Anthropology (1-6)**

## Graduate Courses

**03.631 Proseminar: Cultural and Social Anthropology (3)** A graduate-level overview of both the history of cultural and social theories and methods and the contemporary concerns of anthropology. Usually required of all incoming graduate students; consult the department chair. Usually offered every fall. *Prerequisite:* graduate standing.

**03.634 Proseminar: Archaeology and Physical Anthropology (3)** A graduate-level overview of recent work, focusing on archaeological data: their nature, strengths and weaknesses, collection, analysis, and application to anthropological goals. Also considers the role of physical anthropology in the discipline. Usually required of all incoming graduate students; consult the department chair. Usually offered every fall. *Prerequisite:* graduate standing.

**03.637 Proseminar: Anthropological Linguistics (3)** An overview of important themes in anthropological linguistics as they relate to method and theory in general anthropology. Usually required of all incoming anthropology graduate students; consult the department chair. Usually offered every spring. *Prerequisite:* graduate standing in anthropology and 03.631; or graduate standing in the TESOL masters program and six graduate hours in linguistics; or permission of instructor.

**03.639 Culture Area Analysis (3)** Examinations of particular culture areas to provide insight into the conditions that produced distinctive cultures in certain geographical regions. Examples are North American Indians, Latin America, Mexico and Central America, North American ethnic groups, American culture and society, Europe, India, Africa, China, and Japan. Meets with 03.339. May be repeated for credit in the same term; topic must be different. Usually offered every term.

**03.640 Current Issues in Anthropology (3)** Seminar discussion of a particular problem of contemporary interest and its relationship to anthropological method and theory. Topic changes each semester. Usually offered every term. May be repeated for credit in the same term; topic must be different.

**03.690 Independent Study Project in Anthropology (1-6)**

**03.691 Internship in Anthropology (1-6)** Experience in local agencies involving the transfer of anthropological thinking to practical concerns. Usually offered every term. *Prerequisite:* permission of department chair.

**03.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**03.797 Master's Thesis Seminar (1-6)** Usually offered every term.

**03.799 Doctoral Dissertation Seminar (1-24)** Usually offered every term.

## Art

### Studio

#### Undergraduate Courses

**05.100 Art: The Studio Experience /A 1:1 (3)** Studio work in painting, drawing, design, and sculpture, focusing on the interrelationship of hand, eye, and mind in creating expressive works of art. Lectures, critiques, and museum visits relate basic visual language to analytic and creative processes of the artist. Usually offered every term.

**05.205 Drawing: Responding to Vision /A 1:2 (3)** Studio drawing course. Drawing from direct observation as a tool of discovery and as a process of analyzing vision. Students employ traditional materials and techniques to explore questions of form and expression presented through introductory lectures and demonstrations. Class critiques and museum assignments expand possibilities for individual development. Usually offered every term. *Prerequisite:* for General Education credit: 05.100 or 17.105. *Note:* not open to students who have taken 05.121 Fundamentals of Drawing.

**05.210 Painting: Color, Form, Expression /A 1:2 (3)** Studio painting course. Problems in form and expression presented through studio work, informal work, informal slide lectures and demonstrations. Students learn the language of painting, its structure, and its potential for personal expression. Critical sensibilities are developed through museum visits and individual and group critiques. Usually offered every term. *Prerequisite:* for General Education credit: 05.100 or 07.105. *Note:* not open to students who have taken 05.120 Fundamentals of Painting.

**05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)** Clay sculpting from a model as a tool in learning to see. Students master the fundamental studio skills, become conversant with the art of the past, and begin to develop a personal vision. Slide lectures, demonstrations, and museum assignments augment the studio classwork. Usually offered every term. *Prerequisite:* for General Education credit: 05.100 or 07.105. *Note:* not open to students who have taken 05.122 Fundamentals of Sculpture.

**05.220 Design: Color Theory and Practice /A 1:2 (3)** This studio course uses paint and color samples to develop a refined perception of the world. Students study the theory, visual properties, and psychological and physiological effects of color. Class exercises explore formal aspects of color and use them expressively to communicate ideas. Usually offered every term. *Prerequisite:* for General Education credit: 05.100 or 17.105. *Note:* not open to students who have taken 05.150 Introduction to Design: Color.

**05.225 Design: Form, Space, Vision /A 1:2 (3)** A studio design course integrating materials, visual principles and the design process to solve graphic communication problems. Students develop a fluency in visual language to form a basis of aesthetic judgment and develop a method of analysis and inquiry which underlies creative thinking. Studio practice combines with class critiques and museum visits. Usually offered every term. *Prerequisite:* for

*General Education credit:* 05.100 or 07.115. *Note:* not open to students who have taken 05.151 Introduction to Design: Two-Dimensional.

**05.300 The Italian Sketchbook (3)** Using Italy as a source of inspiration, this course allows the student to perfect sketchbook techniques in both drawing and watercolor. The subject matter includes landscapes, architectural forms, and three-dimensional figures. The course is held on-site in Rome and throughout Italy and also entails a literary component. Offered only in Rome. Usually offered every term. *Prerequisite:* 05.205.

**05.310 The History of Graphic Design (3)** Graphic images have been used from prehistory to the computer age. A lecture-and-studio format presents the historical background for the graphic arts of calligraphy, typography, book design, mapping, diagramming, and illustration. Emphasis on the relationship of these applied arts to the fine arts, technology, and social history of the period as well as on the application of this visual language to contemporary design problems. Usually offered every fall. *Prerequisite:* general art survey or equivalent recommended.

**05.320 Creative Painting (2-3)** Studies in color, composition, and drawing from still life and figure. Individually assigned projects. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.210 or equivalent.

**05.340 Sculpture (2-3)** Problems and principles of sculpture. Acquaintance with tools, techniques, and materials for plastic expression. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.215 or equivalent.

**05.344 Ceramics (3)** Basic principles of working with clay. Instruction both in wheel and in other methods of making pottery. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

**05.348 Design Techniques I (3)** Exploration and analysis of graphic means for design presentation. Usually offered every term. *Prerequisite:* 05.225 or permission of instructor.

**05.349 Design: Computer Graphics I (3)** The goal of this course is to enable students to use the Apple Macintosh computer as a tool in the process of solving design problems. A desktop publishing and illustration program will be taught. The concentration of the class will be geared towards proficiency in the programs. Usually offered every term. *Prerequisite:* 05.350 or permission of instructor.

**05.350 Typography: Theory and Practice (3)** Theory and analysis of letter forms as design and symbol. Study of type faces, arrangement, and setting. Usually offered every fall. *Prerequisite:* 05.348 or concurrent registration.

**05.351 Design Techniques II (3)** Exploration and analysis of graphic means and structures for design presentation. Usually offered every term. *Prerequisite:* 05.350.

**05.353 Typography: Color and Design (3)** An exploration of structure, space, and color in visual communications through the study of type faces and the arrangement of words. Usually offered every term. *Prerequisite:* 05.350.

**05.354 Production for Graphic Designers (3)** An introduction to the technical procedures that translate graphic design from an idea to a printed piece. Includes development of comprehensive sketches, preparation of mechanicals, paper and ink selection, color separation, and printing procedures. Lecture, studio projects, and local field trips. Usually offered every fall and summer. *Prerequisite:* 05.348 and 05.350 or departmental permission.

**05.356 Advanced Design I (3)** Experimentation and practice in design problems relating to visual communication; emphasis on techniques and solutions of professional problems. Usually offered every fall. *Prerequisite:* 05.351 or permission of instructor.

**05.357 Advanced Design II (3)** Practical consideration and execution of complex design problems involving previous design training and preparation of portfolios. Usually offered every spring. *Prerequisite:* 05.356 or permission of instructor.

**05.359 Illustration (3)** Basic black-and-white illustration techniques including representational drawing and pictograms. Emphasis is on adaptation of illustration to reproduction. Usually offered every spring. *Prerequisite:* 05.348 or two drawing courses or permission of instructor.

**05.360 Drawing (3)** Structural drawing from the human figure. Movement, expression. Range of techniques and media. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.205 or equivalent.

**05.363 Introduction to Printmaking (3)** An introduction to basic printmaking processes. Emphasis on the effect of different processes on imagery, visual thinking and individual development. Usually offered every fall. *Prerequisite:* one drawing class or equivalent or permission of instructor.

**05.364 Printmaking: Woodcut and Surface Print (3)** Woodcut and relief print as media of creative expression. Emphasis on experimentation and control. Usually offered every term. *Prerequisite:* two drawing courses or one drawing and one design course.

**05.390 Independent Reading Course in Art (1-6)**

**05.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**05.490 Independent Study Project in Art (1-6)**

**05.491 Internship (3)**

## Graduate and Advanced Undergraduate Courses

**05.520 Techniques of Etching (3)** Investigation of etching and its various techniques. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.364 or two courses in drawing.

**05.533 Materials and Techniques of Painting (3)** Technical investigation of painting methods from the Renaissance to the present. Preparing grounds, media, underpainting, glazing, emulsions for tempera, etc. Usually

offered every fall. *Prerequisite:* two painting courses or permission of instructor.

**05.560 Drawing (3)** Experiments in the creative and expressive qualities of drawing. Personal creative expression. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

**05.590 Independent Reading Course in Art (1-6)**

## Graduate Courses

**05.690 Independent Study Project in Art (1-6)**

**05.691 Internship (3)**

**05.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**05.700 Criticism of Painting (3)** A theoretical and philosophical consideration of painting. Detailed analysis of artistic works. Lecture and slides. Usually offered every spring. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

**05.792 Art Laboratory: Painting (3)** Intensive investigation of ideas and techniques in painting. Emphasis on experimentation leading to development of individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

**05.793 Art Laboratory: Sculpture (3)** Intensive investigation of sculpture with emphasis on experimentation leading to individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of department chair.

**05.795 Art Laboratory: Printmaking (3)** Intensive investigation of printmaking with emphasis on experimentation leading to individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of department chair.

**05.797 Master's Thesis Seminar (3-9)** Independent work toward the thesis, with regular critiques and discussion. Consult the department for registration and participation requirements. Usually offered every term. *Prerequisite:* M.F.A. candidate with permission of department chair.

## Art History

### Undergraduate Courses

**07.100 European Art: From Cave to Cathedral / A 2:1 (3)** This course examines artistic monuments from the paleolithic through medieval periods, including the religious, philosophical, and social forces that shaped them. Considered are Egyptian, Cretan, Grecian, Roman, Judaic, and Christian art and architecture from early basilicas through French Gothic cathedrals. Students are provided analytic tools for understanding art in history. Usually offered every term. *Note:* not open to students who have taken 07.100 Survey of Art I. *Note also:* students may

not take both 07.100 and 07.105 for General Education credit.

**07.101 European Art: Renaissance to the Present (3)** An illustrated introduction to architecture, sculpture, and painting in the Western world between 1400 and 1980. Usually offered every spring. *Prerequisite:* 07.100 recommended but not required.

**07.105 Art: The Historical Experience /A 1:1 (3)** An introduction to works of art in historical context. A selection of topics in Western art from prehistory to the present permits in-depth study of such major architectural monuments as the Parthenon, Chartres Cathedral, St. Peter's in Rome, and such artists as Michelangelo, Raphael, El Greco, Gentileschi, Rembrandt, the French Impressionists, and Picasso. Usually offered every term. *Note:* not open to students who have taken 07.105 introduction to the History of Art. *Note also:* students may not take both 07.100 and 07.105 for General Education credit.

**07.200 Art and Architecture in Rome (3)** A survey of western art and architecture as exemplified in Roman museums, churches, palaces, and archaeological sites. Offered only in Rome. Usually offered every term.

**07.205 Art of the Renaissance /A 2:2 (3)** Architecture, sculpture, painting, and prints of Renaissance Italy and Northern Europe. Considering the interplay of art with philosophy, theology, and social change, this course examines the artistic legacy and rich creative achievements of a culture inspired by classical antiquity, but which also understood itself as a new historic era. Usually offered every spring. *Prerequisite for General Education credit:* 07.100 or 61.105. *Note:* not open to students who have taken 07.304 Aspects of Renaissance Art.

**07.210 Modern Art: Nineteenth and Twentieth Centuries /A 1:2 (3)** An introduction to the art of the modern period. Presents in cultural and historical contexts the work of major artists such as David, Goya, Delacroix, Monet, Van Gogh, Cézanne, Picasso, Matisse, Duchamp, Pollock, and many others. The issue of what is unique about modern art and the expanding conception of creative expression in our era are emphasized. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 07.105 or 17.105 or 67.110. *Note:* not open to students who have taken 07.306 Modern Art.

**07.215 Architecture: Washington and the World /A 1:2 (3)** Appreciation of our architectural heritage and a study of its history through the great buildings of Washington. Monuments such as the White House and the Capitol are studied in relation to structures from which they have evolved. Students obtain a knowledge of building traditions of Washington, the United States, and the Western world. Usually offered once a year. *Prerequisite for General Education credit:* 07.105 or 17.105.

**07.300 Baroque Art (3)** Study of art and architecture during the Baroque Age, beginning with the Counter-Reformation movement, continuing to the advent of the Neo-Classical. Emphasis will be placed on the Italian roots of this style which later spread throughout Europe. Offered only in Rome. Usually offered every spring. *Prerequisite:* 07.101 or 07.105.

**07.302 Roman Art (3)** Art and architecture of Rome from the republic through the Empire. Meets with 07.602. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105.

**07.303 Medieval Art (3)** A survey of Medieval art covering Early Christian, Byzantine, Romanesque, and Gothic developments in architecture, painting, and sculpture. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105.

**07.305 Aspects of American Art (3)** Changing topics on selected individual artists or on key themes or concepts in American art, from the colonial period to the present. Works of art and library resources in the Washington area are emphasized. Usually offered alternate years.

**07.308 Gothic Art (3)** Architecture, painting, sculpture, manuscript illuminations, and stained glass from the twelfth to the fifteenth century in Europe. Meets with 07.608. Offered irregularly. *Prerequisite:* 07.100 or 07.105 or 07.303.

**07.309, 07.310 Museum Studies and the Arts Seminar I (4), II (4)** Takes students behind the scenes at cultural institutions, attending presentations by professionals in the museum and arts world. Students are introduced to the key issues and concerns in the field of museology and the arts. Topics include: connoisseurship and collecting, aesthetic judgements, conservation and preservation, managing not-for-profits, art law and intellectual property and a wide variety of other topics. Usually offered every spring. *Prerequisite:* permission of Washington Semester program.

**07.316 The Architecture of Humanism 1400-1700 (3)** A history of the architecture of the Renaissance, Baroque, and Rococo periods, emphasizing the humanistic traditions of Western Europe as expressed in major buildings and in city planning. Meets with 07.616. Offered irregularly.

**07.318 Nineteenth and Twentieth Century Architecture (3)** Modern architecture and the encounter of architecture with the machine age. Meets with 07.618. Offered irregularly.

**07.331 Painting and Sculpture in the U.S. to 1900 (3)** Attention is given to relationships between American and European art. Emphasis on major artists such as Copley, Stuart, Bingham, Homer, Eakins, and Whistler, and on such developments as the Hudson River School, Luminism, genre painting, women's traditional arts, and public sculpture. Meets with 07.631. Usually offered every fall. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

**07.332 Painting and Sculpture in the U.S.: 1900 to the Present (3)** Attention is given to relationships between American and European art. Emphasis on major events and styles in the twentieth century, such as the Ashcan School, the Armory Show, art of the WPA, Abstract Expressionism, Pop Art, and feminist art, with attention to leading figures such as O'Keeffe, Hopper, Pollock, DeKooning, Jasper Johns, and Claes Oldenburg. Meets with 07.632. Usually offered every spring. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

**07.333 American Architecture until 1870 (3)** Development of American architecture and its relation to European

developments. Meets with 07.633. Usually offered alternate falls.

**07.334 American Architecture: 1870 to the Present (3)** American architecture and city planning from the post-Civil War period to the present. Meets with 07.634. Usually offered alternate springs.

**07.390 Independent Reading Course in Art History (1-6)**

**07.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**07.490 Independent Study Project in Art History (1-6)**

**07.491 Internship (3)** *Prerequisite:* approval of adviser and department chair.

**07.492 Internship in Museum Studies and the Arts (4)** A two day a week internship at a Washington cultural organization. Academic requirements include a journal of the internship experience and an organizational case study of the organization. Possible sites of placements include private museums and galleries, performing arts centers, auction houses, the Smithsonian, arts magazines and newspapers, and managerial offices of not-for-profits. Usually offered every spring. *Prerequisite:* permission of Washington Semester program.

### Graduate and Advanced Undergraduate Courses

**07.500 Approaches to Art History (3)** Reading, discussion, and written work based on selected topics in formal analysis, style, iconography, and quality with attention to critical interpretation and writing research papers. Required for undergraduate art history majors and for graduate art history students. Usually offered every fall. *Prerequisite:* four art history courses or graduate standing. *Note:* required for both undergraduate and graduate art history majors.

**07.501 Baroque Painting (3)** Seventeenth century painting in Italy, Spain, France, the Netherlands, and England. Emphasis on Caravaggio, Rubens, Rembrandt, Vermeer, Poussin, and Velázquez. Usually offered alternate years. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

**07.506 Renaissance Sculpture (3)** Italian sculpture from the fifteenth to the seventeenth century, stressing achievements of Donatello, Michelangelo, and Bernini. Offered irregularly. *Prerequisite:* two art history courses including 07.101 or permission of instructor.

**07.508 Painting: Rococo through Impressionism (3)** Counter-Rococo currents in the late eighteenth century, including neoclassicism and proto-Romanticism, with a detailed study of David and Goya; French Romanticism in the art of Gérôme and Delacroix; romantic landscape painting with emphasis on Turner, Constable, Friedrich, Corot, and the Barbizon School; the realism of Courbet, Manet and Degas; and Monet and the French Impressionists. Usually offered alternate years. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

**07.510 Painting: Post-Impressionism to Expressionism (3)** Reactions to Impressionism in the 1880s and

1890s in France and elsewhere in Europe. Emphasis on the art of Seurat and the Neo-Impressionists, Cézanne, Gauguin and the Symbolists, and Van Gogh. Also studied are Toulouse-Lautrec, Bonnard, Vuillard, Munch, Ensor, and Klimt. Art Nouveau and Expressionism are considered as Post-Impressionist phenomena, and their effect on the early work of Matisse and Picasso is assessed. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

**07.511 Painting: Cubism to the Present (3)** After analyzing the development of Cubism in the art of Picasso and Braque, the course discusses the Cubist followers, Gris, Léger, Delaunay, and the Italian Futurists. Also studied are the nonobjective styles of Kandinsky and Mondrian, and the Dada and Surrealist movements, with emphasis on Duchamp, Miró, and Picasso. American art since 1945 and its roots in traditions of European modernism are considered. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

**07.513 Renaissance Painting: Giotto to Bellini (3)** Developments in Florence, Siena, and other artistic centers, with regard to the formation and solution of Renaissance pictorial problems, 1300-1475. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

**07.514 Renaissance Painting: Leonardo to Caravaggio (3)** Development of High Renaissance, Mannerist, and proto-Baroque styles. Major artistic personalities, such as Michelangelo, Raphael, Giorgione, and Titian, 1475-1580. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

**07.520 Seminar in Art History (3)** Reports and critical discussion of research papers on topic announced for semester. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* six art history courses or permission of instructor.

**07.590 Independent Reading Course in Art History (1-6)**

### Graduate Courses

**Note:** 600-level courses generally meet with 300-level courses. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

**07.602 Roman Art (3)** Art and architecture of Rome from the Republic through the Empire. Meets with 07.302. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105.

**07.608 Gothic Art (3)** Architecture, painting, sculpture, manuscript illuminations, and stained glass from the twelfth to the fifteenth century in Europe. Meets with 07.308. Offered irregularly. *Prerequisite:* 07.100 or 07.105 or 07.303.

**07.618 The Architecture of Humanism 1400-1700 (3)** A history of the architecture of the Renaissance, Baroque, and Rococo periods, emphasizing the humanistic traditions of Western Europe as expressed in major buildings

and in city planning. Meets with 07.316. Offered irregularly.

**07.618 Nineteenth and Twentieth Century Architecture (3)** Modern architecture and the encounter of architecture with the machine age. Meets with 07.318. Offered irregularly.

**07.631 Painting and Sculpture in the U.S. to 1900 (3)** Attention is given to relationships between American and European art. Emphasis on major artists such as Copley, Stuart, Bingham, Homer, Eakins, and Whistler, and on such developments as the Hudson River School, Luminism, genre painting, women's traditional arts, and public sculpture. Meets with 07.331. Usually offered every fall. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

**07.632 Painting and Sculpture in the U.S.: 1900 to the Present (3)** Attention is given to relationships between American and European art. Emphasis on major events and styles in the twentieth century, such as the Ashcan School, the Armory Show, art of the WPA, Abstract Expressionism, Pop Art, and feminist art, with attention to leading figures such as O'Keeffe, Hopper, Pollock, DeKooning, Jasper Johns, and Claes Oldenburg. Usually offered every spring. Meets with 07.332. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

**07.633 American Architecture until 1870 (3)** Development of American architecture and its relation to European developments. Meets with 07.333. Usually offered alternate falls.

**07.634 American Architecture: 1870 to the Present (3)** American architecture and city planning from the post-Civil War period to the present. Meets with 07.334. Usually offered alternate springs.

**07.690 Independent Study Project in Art History (1-6)**

**07.691 Internship (3-6)** *Prerequisite:* approval of adviser and department chair.

**07.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**07.792 Research Seminar in Art History (3)** Normally drawn from one of six areas: Renaissance art, Baroque and Rococo art, nineteenth- and twentieth-century art, American art, and architecture. The subject is announced each semester. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to M.A. candidates with twelve hours of graduate art history with a B average. Permission of department chair required.

**07.793 Directed Research in Art History (3)** Topic arranged. Must be in a field listed under 07.792, but not in field covered in 07.792 that semester. Usually offered every term. *Prerequisite:* open only to M.A. candidates with 12 hours of graduate art history with a B average. Permission of department chair required.

## Biology

### Undergraduate Courses

**09.100 Great Experiments in Biology /N 5:1 (3)** The core of biology is the scientific experiment. This course, through lecture and laboratory, focuses on some classic experiments that introduce students to the modern study of biology and scientific method. Experiments include ones in the molecular basis of mutation, separation of complex biologically important molecules, and the construction of demographic tables. Usually offered every term. *Prerequisite:* completion of the College Mathematics Requirement or concurrent enrollment in a mathematics or statistics course that has 41.150 Finite Mathematics as a prerequisite. *Note:* not open to students who have taken 01.301 Great Experiments in Biology.

**09.102 Seminar in Environmental Issues (1)** This seminar for beginning environmental studies majors introduces the student to the domain of environmental science as a discipline. The student is exposed to the scientific, economic, and social issues underlying major environmental problems. Different environmental topics are presented through faculty and guest speakers, readings, and discussions. Usually offered every term. *Prerequisite:* environmental studies majors only.

**09.110 General Biology I /N 5:1 (4)** An in-depth introduction and exploration of the study of life from atoms, molecules, and organelles to the cellular levels of organization. Emphasis on cell structure and function, energetics and metabolism, the gene, molecular genetics, and evolution. The laboratory component introduces the scientific method and experimentation through the study of microbes, plants and animals. Two and a half hours of lecture and two and a half hours of laboratory per week. Usually offered every term. *Prerequisite:* completion of the College Mathematics Requirement or concurrent enrollment in calculus with permission of the Department of Mathematics and Statistics. *Note:* not open to students who have taken 09.101 General Biology I Lecture.

**09.200 Structure and Function of the Human Body /N 5:2 (3)** The human organism as a paradigm for biological organization. The relationship between structure and function of organ systems. Disease processes in the context of normal physiology; social concerns from a biological perspective. Usually offered every term. *Prerequisite:* for General Education credit: 09.100 or 09.110. *Note:* not open to students who have taken 09.100 Human Biology.

**09.210 General Biology II /N 5:2 (4)** An exploration of the origins of planet Earth and life. Emphasis on the organismal and higher levels of biological organization. The diversity of life through a survey of the five kingdoms and their phylogenetic relationships. The form and function of plants and animals. A consideration of the interrelationships between organisms and environment. The laboratory component explores the diversity of life at the organismal and higher levels of biological organization. Studies include form and function of plants and animals, dissection of the rat, and selected systems. Two and a half hours of lecture and two and a half hours of laboratory per week. Usually offered every term. *Prerequisite:* for all students, and for General Education credit: 09.110.

**09.220 The Case for Evolution / N 5:2 (3)** The controversies surrounding the changes in species through time. Organic evolution: what is fact, what is hypothesis, and what is belief are assessed. The case for evolution by natural selection. Usually offered every term. *Prerequisite for General Education credit:* 09.110 or 09.100 or 57.115.

**09.240 Oceanography / N 5:2 (3)** An introduction to the study of the sea, including continental drift and plate tectonics, marine mineral resources, climatology and meteorology, currents, winds, sediments, beaches, waves, violent storms, tsunamis, tides, dunes, marshes, swamps, reefs, productivity, upwelling, fisheries, dangerous marine animals, whales, sharks, shellfish, ocean dumping, and marine law. Usually offered every term. *Prerequisite for General Education credit:* 09.100 or 09.110 or 15.100 or 15.110 or 51.100 or 51.105 or 51.110. *Note:* not open to students who have taken 00.200 General Education Component: The World Ocean.

**09.250 Living in the Environment / N 5:2 (3)** Focuses on key principles that govern how nature works and applies them to possible solutions to environmental problems. Major topics include energy flow and nutrient cycling through ecosystems, properties of natural communities, human population dynamics, resource conservation and management, the meaning of pollution, and environmental ethics. Usually offered every term. *Prerequisite:* previous experience with biology or chemistry and, for General Education credit, 09.100 or 15.100.

**09.300 Cell Biology with Laboratory (4)** Integrated study of cell structure and function in microorganisms, plants, and animals emphasizing their ultrastructure, biochemistry, and physiology. Lab consists of direct experience with the morphology and physiology of cells. Exercises include the use of pH meters, spectrophotometers, the ultracentrifuge, compound light, polarizing and phase contrast microscopes. Studies of enzyme kinetics, cell motility and respiration, chromosome structure, and fundamental histology are also conducted. Usually offered every fall. *Prerequisite:* 09.210, 15.110 and 15.210.

**09.356 Genetics with Laboratory (5)** Basic genetic principles as revealed by classical and modern research methods. Patterns of gene transmission; gene structure, function, interactions, and mutation; chromosomal aberrations; nonchromosomal inheritance; biochemical genetics; and population genetics. Experiments illustrating basic genetic concepts, using materials from corn, drosophila, and humans. Usually offered every spring. *Prerequisite:* 09.300 or permission of instructor.

**09.375 Water Resources (3)** A study of the availability, quality, dynamics, and cycles of water. Emphasizes the hydraulic cycle, movement of water in aquifers, floods and droughts, drainage basin analysis, and factors affecting water quality. Usually offered every fall. *Prerequisite:* 41.211 or 41.221.

**09.390 Independent Reading Course in Biology (1-6)**

**09.392 Cooperative Education Field Experience (3-9)** See Cooperative Education in this publication.

**09.404 Biology of Plants with Laboratory (4)** An in-depth survey of plant structure and function, with emphasis on photosynthesis, development, physiology, and

evolution. Usually offered every spring. *Prerequisite:* 09.210 and 15.210.

**09.410 Invertebrate Zoology with Laboratory (4)** Structure, evolution, and physiology of invertebrate animals, marine groups, Helminthes, and certain insects. The laboratory includes the identification of organisms within the various taxa. Sampling techniques for the collection of animals in fresh and salt water systems; field trips for collection and identification of habitats for insects and worms; record-keeping and an understanding of instrument and equipment maintenance. Usually offered alternate falls. *Prerequisite:* 09.110 and 09.210.

**09.423 Introduction to Ecology (3)** General principles of terrestrial and aquatic ecology, emphasizing deciduous forest and fresh water ecology. Usually offered every fall. *Prerequisite:* 09.210.

**09.435 Vertebrate Physiology with Laboratory (5)** Properties and physiology of vertebrate organ systems are explored. Laboratory illustrates selected physiological principles and encourages scientific inquiry. Usually offered alternate falls. *Prerequisite:* 09.300, 15.110, and 15.210.

**09.440 Microbiology with Laboratory (4)** Introductory survey of the protists (with emphasis on bacteria); their morphology, physiology, metabolism, growth, and destruction, and their role in human welfare as agents of disease and environmental change. Laboratory techniques of straining, cultivation, isolation, and identification of microbes, with emphasis on bacteria. Experiments on physiology, metabolism, and physical-chemical effects on growth and death of microbes. Usually offered every fall. *Prerequisite:* 09.110, 09.210, and 15.310.

**09.490 Independent Study Project in Biology (1-6)**

**09.491 Internship (1-4)**

**09.492 Senior Capstone in Environmental Studies (4)** An in-depth examination of two major sites of environmental concern and controversy from a variety of scientific and social perspectives. One site, such as the Yellowstone Ecosystem, will be of national importance; and one, such as the Anacostia River, will be of local importance. Usually offered every spring. *Prerequisite:* Senior standing. Environmental studies majors only.

**09.497 Senior Honors Thesis I (3)** Student designed original laboratory or field research project. Usually offered every term. *Prerequisite:* Senior standing, honors program, permission of department.

**09.498 Senior Honors Thesis II (3)** Completion of student designed original laboratory or field research project. Results both written as scientific paper(s) and presented in departmental seminar. Usually offered every term. *Prerequisite:* 09.497.

**09.499 Senior Seminar in Biology (3)** This seminar, required of all senior biology majors, challenges students to examine unifying principles of biology. Different topics are presented in discussions, through faculty and guest speakers, readings, and individual student presentations. Usually offered every spring. *Prerequisite:* senior standing; biology majors only.

**Graduate and Advanced Undergraduate Courses**

**09.500 Advanced General Microbiology (3)** Structure and functional anatomy of prokaryotic cell walls and membranes; bacterial phototrophs, autotrophs, heterotrophs, their main pathways of degradative and synthetic metabolism; mechanisms of prokaryotic genetic exchange; and regulation of gene expression. Usually offered every spring. *Prerequisite:* 09.440 and organic chemistry.

**09.501 Mechanisms of Pathogenesis (3)** Infectious diseases of humans with emphasis on bacterial pathogens and the biology of the causative agents. Host-pathogens and the biology of causative agents. Host-parasite relationships, pathogenesis, immunology, and epidemiology are studied. Usually offered alternate springs. *Prerequisite:* 09.440 or permission of instructor.

**09.505 Introduction to Neurobiology (3)** A general introduction to basic neuroanatomy and neurophysiology, with discussions of current topics in neuroscience. Intended for advanced undergraduates in biology or psychology pursuing a natural-science curriculum, and for graduate students in biology and psychology. Usually offered alternate falls. *Prerequisite:* one year college-level biology and permission of instructor. A course in anatomy and physiology is strongly recommended.

**09.541 Cellular Immunology (3)** Current concepts of the immune response at the cellular level. Structure and function of the T-lymphocyte, B-lymphocyte, macrophages, and ancillary cells. Theories of antibody diversity and the cellular basis of immunoglobulin formation. Cellular aspects of immunologic tolerance, hypersensitivity, surveillance, and clinical immunology. Review of the current literature. Usually offered every fall. *Prerequisite:* 09.300 or graduate standing.

**09.550 Developmental Biology with Laboratory (4)** The descriptive morphology, physiology, biochemistry, genetics, and molecular biology of the developmental processes in a variety of organisms. Includes laboratory study of prepared slides and living material. Usually offered alternate falls. *Prerequisite:* 09.300 or equivalent, 15.320 or equivalent, and senior or graduate standing.

**09.552 Field and Laboratory Methods in Water Quality Analysis (4)** Biological and chemical methods for evaluating water quality in fresh water lakes and streams. EPA-approved protocols for rapid bioassessments; taxonomic identifications of freshwater invertebrates and plants. Chemical and physical examination of water using currently accepted water quality tests. Three hours of lecture per week; plus three Saturdays and one Sunday for field collecting, times to be arranged. Usually offered alternate falls. *Prerequisite:* 09.110, 09.210, 15.110, 15.210.

**09.555 Techniques of Molecular Biology (3)** Training in the basic manipulation of DNA, RNA, and protein. Practical experience in several different analytical and preparative procedures. Usually offered every fall. *Prerequisite:* permission of instructor. *Note:* not open to students who have taken 09.661 Techniques of Molecular Biology.

**09.560 Techniques in Cell Biology (3)** Basic techniques of cell and tissue culture. Aseptic technique, primary culture, culture and characterization lines, cell growth kinetics, and physical methods of cell separation. Usually

offered every fall. *Prerequisite:* 09.300 or equivalent and senior or graduate standing.

**09.565 Techniques of Ecological Research (3)** Training in the techniques of ecological research. The course integrates sampling problems in the field, statistical analysis of the data, and interpretation of the results in terms of major ecological questions. Usually offered every fall. *Prerequisite:* 09.423 or equivalent, 42.202 or equivalent, and senior or graduate standing.

**09.566 Evolutionary Mechanisms (3)** The genetic composition of populations and the theory and principles of natural selection. Species formation and differentiation in Darwinian and neo-Darwinian theory. Evolution above the species level and current evolutionary concepts (such as sociobiology and catastrophe theory) are also considered. Usually offered alternate falls. *Prerequisite:* 09.300, 09.356, or 09.550.

**09.568 Techniques of Evolutionary Research (3)** Training in three major areas of evolutionary research: molecular evolution, quantitative genetics, and phylogenetic reconstruction. Both laboratory and quantitative skills are developed. Usually offered every spring. *Prerequisite:* 09.566 or equivalent, 42.202 or 42.514. *Note:* not open to students who have taken 09.664 Techniques of Evolutionary Research.

**09.572 Special Topics in Ecology (1-4)** Selected topics and current research relating to freshwater and marine aquatic ecosystems, biogeography, and populations of plants and animals. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* one course in basic ecology.

**09.577 Special Topics in Developmental Biology (1-4)** Current research interests such as nuclear-cytoplasmic interactions, cell surface in development, developmental aspects of carcinogenesis, and gene expression in development. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* 09.550 or equivalent and permission of instructor.

**09.579 Topics in Evolutionary Biology (1-4)** Current research topics, depending on the focus of the instructor, such as Molecular Evolution, Biochemical Approaches to Evolution, Mathematical Modeling of Evolutionary Processes, and the Interaction of Genetics, Developmental Biology, Ecology and Evolutionary Biology. May be repeated for credit, but not within the same term; topic must be different. Offered irregularly. *Prerequisite:* permission of instructor.

**09.583 Molecular Biology (3)** An in-depth study of gene structure and expression. Concepts are described and illustrated further with examples and discussion of classic and current papers from the scientific literature. Topics covered include DNA, RNA and protein synthesis, regulation of gene expression in prokaryotes and eukaryotes, nucleic acid structure, RNA processing, DNA binding proteins and transcription factors, oncogenes, transformation, mutations, DNA repair and recombination. Usually offered alternate falls. *Prerequisite:* 15.561. *Note:* not open to students who have taken 09.683 Molecular Biology.

**09.590 Independent Reading Course in Biology (1-6)**



## Graduate Courses

**09.660 Mammalian Physiology and Pathology (3)** The way systems function and the way each contributes to the function of the body as a whole. Discussion and identification of the toxic agents that interfere with the normal function of the body. Offered irregularly.

**09.679 Aquatic Toxicology (3-4)** The principles and applications of physiological toxicology, toxicological methodology and data, bioaccumulation of aquatic contaminants, and the fate of chemicals in the aquatic environment. Students conduct standardized bio-assays and evaluate the toxicity of selected compounds to selected trophic levels. Usually offered alternate springs. *Prerequisite:* graduate standing and permission of instructor.

**09.690 Independent Study Project in Biology (1-6)**

**09.691 Internship (1-8)**

**09.692 Cooperative Education Field Experience (3-6)** See Cooperative Education in this publication.

**09.697 Research Methodology in Biology (3)** Basic scientific research skills necessary for experimental design, data analysis, literature critiques, and disseminating results. Specific topics include techniques for literature research, scientific writing including thesis proposal preparation, the use of statistical packages, and the preparation of an oral presentation for a thesis defense, seminar, or professional meeting. Required of all graduate biology students. Usually offered every fall. *Prerequisite:* graduate standing in biology.

**09.700 Graduate Seminar (1)** May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* graduate standing in biology.

**09.790 Biology Literature Research (1-6)** Students conduct a literature search on some aspect of the biological sciences under the direction of their guidance committee, culminating in the submission of a review paper. Satisfies part of the degree requirements for the M.A. degree in biology. Usually offered every term. *Prerequisite:* M.A. candidate in biology.

**09.797 Master's Thesis Research (1-6)** *Prerequisite:* M.S. candidate in biology.

## Business Administration

### Management

#### Undergraduate Courses

**10.352 Introduction to Management Information Systems (3)** Information as an organizational resource, decision-making frameworks, transaction processing systems, decision support systems, external information systems, office automation, competitive information systems, accounting and financial applications, marketing applications, production applications, needs assessment, system design and implementation, organizational impacts, and social issues. A technology update is provided in hardware and software basics, database-management systems, and telecommunications. Usually offered every term. *Prerequisite:*

40.260 or 40.280, 14.240, 10.353, which may be taken concurrently, and upper-division standing.

**10.353 Principles of Organizational Theory, Behavior, and Management (3)** Current management theories, research, and practice. Course content represents a synthesis of behavioral sciences providing a broad framework for management. Topics include organizational goals and responsibilities, models, decision theory, planning control, organization, motivation, leadership, group behavior, conflict, and organizational change. Usually offered every term. *Prerequisite:* upper-division standing.

**10.354 Business Applications of Computers /N (3)** Principles of data management. Design of databases. Development of database applications with a database-management system. Usually offered every term. *Prerequisite:* 10.352 and upper-division standing.

**10.355 Production/Operations Management /N (3)** Fundamental concepts of operations management. Introduction to operations research and to management science and its interdisciplinary aspects. Basic elements of decision theory, inventory models, linear programming (L/P), production models, simulation, waiting lines, etc. Usually offered every term. *Prerequisite:* upper-division standing and all Kogod College requirements in statistics.

**10.381 Managing Human Resources (3)** Understanding the principles and operations of personnel administration and industrial-relations systems in organizations by analyzing and applying theoretical concepts to functional situations. Usually offered every term. *Prerequisite:* upper-division standing.

**10.382 Employee Involvement and Labor Policy (3)** An analysis of the concepts and principles of union-management relationships through an emphasis of the historical, legal, economic, social, and behavioral dynamics of union and management interactions in various settings. Usually offered every fall. *Prerequisite:* upper-division standing.

**10.384 Managing Performance (3)** The course focuses on the function and design of performance appraisal systems as tools of professional development, coaching and counseling, merit-compensation determinations, and goal implementation. Students examine the assets and liabilities of alternative methods of performance-appraisal systems. Applications are oriented to the role of the personnel manager. Usually offered every spring. *Prerequisite:* 10.381 and upper-division standing.

**10.386 Entrepreneurship (3)** The entrepreneurship philosophy, attitudes, and characteristics. Entrepreneurship and new venture success and failure factors. Identifying and evaluating entrepreneurial opportunities. Developing a new venture business plan. Successfully managing the new venture. Applications cover creation and management of stand-alone ventures and of those developed within corporations. Usually offered every spring. *Prerequisite:* 11.300, 10.353, and 13.365 and upper-division standing.

**10.387 Management and Leadership Development (3)** Develops the management leadership and organization perspectives essential to the success of small to large businesses and individual managers. Development of management and organization leadership, creativity and innovation are stressed. Enhancing the manager's com-

munication and negotiation skills is a critical dimension to developing effective managers. Developing an understanding of management philosophy and values and their practical impacts on managing a business is stressed. *Prerequisite:* 10.353.

**10.388 Small Business Management (3)** The numerous challenges associated with the successful management of a small business enterprise. Concepts, tools, and techniques of successful management of a small business cover a broad range of service and manufacturing industries. The management application of the computer in a small business situation is highlighted. Usually offered every fall. *Prerequisite:* 10.353.

**10.392 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this catalog. *Prerequisite:* upper-division standing and nine credit hours in business including any relevant business core courses specified by the department. Authorization of instructor and dean or department chair required.

**10.452 Business Responsibility in American Society /A, 9 (3)** The conceptual and historical framework in which the American firm performs as an institution of the community. The relationship between business responsibility and public policy. Emphasis on student participation and cases. Usually offered every term. *Prerequisite:* upper-division standing.

**10.454 Managing Information for Business Decision Making (3)** Use of computer-based modeling systems and computer graphics to support business decisions. Qualitative and quantitative aspects of business decision making, business decision support systems, decision insight systems and expert systems. Experience with business software application packages. Usually offered every fall. *Prerequisite:* upper-division standing.

**10.458 Business Policy and Strategy (3)** Integration of knowledge in functional areas of business and simulation of management experiences. Various methods of simulating a management environment are employed, including case studies and computerized management problems. Usually offered every term. *Prerequisite:* senior standing and completion of all junior-level courses.

**10.481 Managing Compensation Systems (3)** Surveys and analyzes basic concepts of compensation administration in private sector organizations. The foundation for wage and salary programs, methods of job evaluation, building wage and salary structures, and the legal constraints on compensation programs. Usually offered every fall. *Prerequisite:* upper-division standing.

**10.482 Managing Employee Benefits Programs (3)** Analyzes management requirements for legally required benefits such as OASDI, health insurance, unemployment insurance, and worker compensation. Provides in-depth examination of social insurance programs, ERISA, and pension fund management. Usually offered every spring. *Prerequisite:* upper-division standing.

**10.490 Independent Study Project in Management (1-3)** *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

## Graduate and Advanced Undergraduate Courses

**10.585 Managing Diversity: Recruiting and Selecting the Workforce (3)** An analysis of labor-force demographics, study of the Civil Rights Act and amendments, and study of other discrimination-oriented legislation. The course focuses on providing equal employment opportunities in organizations, how to establish affirmative action programs, and how to evaluate the effectiveness of EEO in organizations. Offered irregularly. *Prerequisite:* upper-division standing for undergraduates.

## Graduate Courses

**10.604 Business and Society (3)** Historic and contemporary relations of business to such societal factors as the legal and ethical environment, government regulation, economic and social trends. Company management of business and societal issues, including methods of influencing public opinion and the public-policy process. Usually offered every term.

**10.606 Managerial Statistics (3)** Statistical tools applied to the analysis and resolution of managerial problems with emphasis upon regression. Use of standard computer programs using Statistical Analysis System (SAS). Usually offered every term. *Prerequisite:* a course in calculus, or the Kogod College mathematics workshop.

**10.608 Production and Operations Management (3)** Quantitative methods of operations research (O.R.) models and production management applications. Problem identification, mathematical model construction, computer-oriented solutions, sensitivity analyses, and model validation. Conceptual understanding of the use of O.R. models in the decision-making process of production and operations management. Usually offered every term. *Prerequisite:* 10.606 or equivalent.

**10.610 Organizational Theory and Behavior (3)** Topics include authority and leadership, motivation and morale, work groups and group dynamics, communication, informal systems, planning and management by objectives, concepts of organizational development, organizational structure and processes, systems approach, decision making, control systems, and organizational conflict and change. Usually offered every term.

**10.655 Management Information Systems (3)** Decision-making frameworks, types of information systems, needs assessment, selection and evaluation, implementation, social and policy issues. Computer applications to business decisions. Usually offered every term. *Prerequisite:* 14.603 and 10.610.

**10.657 Business Applications of Database Management Systems (3)** Transaction-processing and information-reporting systems found in business organizations. A special emphasis on database management systems as a foundation for business reporting. Office information systems and management use of external database. Usually offered every spring. *Prerequisite:* 10.655.

**10.658 Managing Information as a Corporate Resource (3)** Managing the information-systems function within business organizations including strategic planning for BMIS, alternatives for delivering computer-based business applications, and information systems for corporate

competitive advantage. Usually offered every fall. *Prerequisite:* 10.655, 11.601, and 13.605.

**10.659 Applications of Business Decision Support Systems (3)** Business decision-making theories, appropriate roles for various information technologies in support of large-scale, complex business decisions. Software to facilitate the monitoring of external events, forecasting and planning, decision modeling and evaluating alternatives and risks. Expert systems applied to business decisions and information support for unstructured decisions. Usually offered every spring. *Prerequisite:* 10.608 and 10.655.

**10.660 Business Applications Development Practicum (3)** Capstone course for graduate BMIS program. Design and implementation of business management information systems by student teams. Case studies of successful and unsuccessful system development projects. Information requirements analysis in business environment. Overview of systems development process. Usually offered every fall. *Prerequisite:* 10.657 and 10.659.

**10.671 Strategic Human Resources Management (3)** Functional issues and current developments in administering the personnel resources of contemporary private-sector organizations. Usually offered every fall.

**10.681 Seminar in Compensation Systems (3)** Analysis of concepts and practices of compensation administration in organizations. Wage and salary programs, methods of job evaluation, building wage and salary structures, and the legal constraints on the wage and salary administrator and on compensation programs. Usually offered every fall.

**10.682 Seminar in Managing Pensions and Benefits (3)** Analyzes the Social Security Act and its offshoots as applied to private, single, and multiemployer plans, ERISA, OASDI, health insurance, unemployment insurance, and worker compensation. Provides skills in pension-fund management. Usually offered every spring.

**10.684 Seminar in Performance Management (3)** Reviews performance-appraisal systems as tools of the management process. The various performance-appraisal techniques, role of rater and rated, and the organizations are examined during this comprehensive review. Current research in performance appraisal is emphasized and discussed. Usually offered every spring.

**10.686 Management-Union Relations (3)** Explores the nature of the collective bargaining system in the United States and the parties having a vital interest in the system. The course deals primarily with formal organizations designed to represent the interests of employers, workers, and the general public. It presents historical background, current practices, and future directions of unions; management strategies in dealing with unions; and the collective bargaining process. Usually offered alternate falls.

**10.690 Independent Study Project in Management (1-6)** *Prerequisite:* authorization of instructor, department chair, and associate dean.

**10.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication. *Prerequisite:* Completion of Common Body of Knowledge (CBK) courses.

**10.694 Seminar in Human Resource Development Programs (3)** Current problems and issues in personnel training and development at all organizational levels, with emphasis on the middle management level. Offered irregularly.

**10.695 Seminar in Employer and Employee Rights (3)** Examines the legal regulation of collective bargaining by analyzing legislative acts, judicial decisions, and administrative determinations that define the rights and govern the behavior of employers and unions in contemporary industrial society. Usually offered alternate falls.

**10.750 Entrepreneurship and New Venture Management (3)** Entrepreneurship characteristics and success and failure factors. Sources of new venture ideas. Developing a new venture or start-up plan. Evaluating new venture ideas and the main competitive entry wedges. Successful strategies for managing and harvesting the new venture. Usually offered every fall. *Prerequisite:* 10.610, 11.601, 13.605, and 14.603.

**10.751 Managing Small and Growing Companies (3)** Focuses on the successful management of small and growing businesses. New ventures, once created, do not automatically survive or grow in value. Specific management strategies are developed which are designed to grow businesses over time, resulting in a substantial building of value in those enterprises. Usually offered every fall. *Prerequisite:* All common body of knowledge courses with the exception of 10.755.

**10.753 Management Leadership and Organizational Productivity (3)** Develops the perspectives necessary for successful future managers. An examination of philosophy of management and managerial values and ethics. Techniques which facilitate the development of creativity, innovation, productivity, and a striving for excellence are examined. Effective management communication and negotiation skills are stressed. Usually offered every spring. *Prerequisite:* All common body of knowledge courses with the exception of 10.755.

**10.755 Strategic Management (3)** Unites the various majors and disciplines taught in the Kogod College of Business Administration. Conceptual skills for integration of previously learned aspects of corporations. A framework for analyzing organizational problems. Strategic management concepts, research, and theories as they apply to organizational analysis. Analytical and decision-making skills are developed through the use of simulations and case studies. Usually offered every term. *Prerequisite:* completion of all graduate core course requirements; must be taken in student's last semester.

**10.756 Management of Entrepreneurship in Service Organizations (3)** Focuses on management and entrepreneurship in a wide variety of service organizations. The service sector of the economy is a large and rapidly expanding sector. Focuses on entrepreneurship in the development of new ventures as well as the application of entrepreneurship in existing larger service organizations.

**10.792 Seminar in National and International Labor Policy (3)** Research into current problems, issues, and developments in industrial relations administration. Usually offered every spring.

**10.795 Seminar in Workforce Planning (3)** Concepts and techniques of personnel resource planning, with special emphasis on projections of manpower requirements.

## Marketing

### Undergraduate Courses

**11.300 Principles of Marketing (3)** Introduction to marketing decision making in business and nonprofit organizations. Particular attention is devoted to analysis of customer needs; segmenting markets; and developing product, promotion, pricing, and distribution strategies. Relationships between consumers, business, and government are explored. Usually offered every term. *Prerequisite:* 19.100, 19.200, and upper-division standing.

**11.301 Consumer Behavior (3)** Study of marketing, psychology, sociology, and cultural anthropology to determine motivations for product purchases. A multimedia approach is used to illustrate the use of behavioral science theory to create new products and promotional campaigns. Students learn to analyze consumer decisions for products or services and to determine effectiveness of information provided by government and charitable organizations. Usually offered every term. *Prerequisite:* 11.300 and upper-division standing.

**11.392 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this catalog. *Prerequisite:* 11.300, upper-division standing and nine credit hours in business including any relevant business core courses specified by the department.

**11.401 Marketing Research (3)** Study of research tools used to aid marketing decision making. Considers definition of research problems, selection of projects, and analysis of data. Execution of a consumer survey is a major component of the course. Students use the computer to analyze research data. Usually offered every term. *Prerequisite:* 11.301 and 42.202.

**11.402 Marketing Problems (3)** Analysis of current marketing management issues. Students develop a marketing plan for an outside organization, analyze case studies, and participate in computer simulation exercises. Usually offered every term. *Prerequisite:* 11.401, which may be taken concurrently, and senior standing.

**11.411 Promotion Management (3)** The role of advertising, public relations, personal selling, and sales promotion in business. Emphasis on how promotional campaigns are planned, created, and budgeted, and how these campaigns can inform buyers, change attitudes, and increase sales. Usually offered every term. *Prerequisite:* 11.300.

**11.412 Promotion Campaigns (3)** Development of an advertising campaign for a client. Includes formulation of advertising strategy, media planning, media buying, creative execution, and campaign evaluation. Usually offered every term. *Prerequisite:* 11.300 and 11.411.

**11.421 Sales Management (3)** An introduction to professional sales force management. Designed to develop skills in planning the sales program, organizing the selling effort, and recruiting, training, and motivating the sales force. Usually offered every spring. *Prerequisite:* 11.300.

**11.436 Retailing Management (3)** Creation and management of retailing institutions. Topics include buying, merchandising, pricing, promotion, inventory management, customer service, and location decisions. Field trips to major retail establishments, guest speakers, and development of a plan for a new retail store are the major components of the course. Usually offered every fall. *Prerequisite:* 11.300.

**11.490 Independent Study Project in Marketing (1-3)** *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

### Graduate Courses

**11.601 Marketing Management (3)** Examination of strategies used by marketing managers to solve business problems. Students learn to make marketing decisions by analyzing environmental constraints and market opportunities. Completion of case studies, analysis of actual business problems, and development of a strategic plan for a business are covered. Usually offered every term. *Prerequisite:* 13.611 and 14.603.

**11.602 Consumer Behavior (3)** Factors influencing consumer motivation and behavior. Consumer decision-making processes and their marketing implications. Students analyze the role of culture, personality, lifestyle, and attitudes in consumer decisions. Usually offered every term. *Prerequisite:* 11.601 or permission of department chair.

**11.604 Marketing Research (3)** Study of research principles used to solve marketing problems. Students, in cooperation with outside organizations, develop market studies, collect data, analyze data, and present a report to management. Research projects, guest speakers from research firms, and analysis of data using the computer are included in the course. Usually offered every term. *Prerequisite:* 11.601 and 10.606, or permission of department chair.

**11.605 Promotion Management (3)** Problems of managing promotional operations in the firm, including advertising, sales promotion, merchandising, personal selling, public relations, and institutional promotion (individually, and as part of strategically coordinated promotional programs) are approached from a managerial point of view. For students seeking careers in sales, advertising, or public relations. Usually offered every spring. *Prerequisite:* 11.601 or permission of department chair.

**11.606 Marketing and Public Policy (3)** Seminar course that explores marketers' responses to the changing legal and regulatory environment. Topics include the impact on marketing practice of copyright and trademark law; warranties; products liability; food and drug, product safety, and deceptive advertising regulations; and antitrust law. The course features prominent guest speakers who debate current issues with the class. Usually offered every spring. *Prerequisite:* 11.601.

**11.607 Strategic Marketing (3)** The strategic or long-range planning process is explored from the perspective of the marketing decision-maker. Interaction with other functional areas such as finance and production is emphasized. The course includes preparation of a strategic plan for a major firm and exposure to guest speakers.

Usually offered every term. *Prerequisite:* 11.601 and 13.805 or permission of department chair.

**11.690 Independent Study Project in Marketing (1-6)**  
*Prerequisite:* authorization of instructor, department chair, and associate dean.

**11.692 Cooperative Education Field Experience (3-6)**  
See description under Cooperative Education in this publication. *Prerequisite:* authorization of dean or department chair and completion of Common Body of Knowledge (CBK) courses.

## International Business

### Undergraduate Courses

**12.200 The Global Marketplace 3:2 (3)** An exploration of the global business environment, with a focus on the cultural dimensions involved in conducting business across national boundaries, as well as the role that business plays in both the international economy and in the preservation of finite world resources. Usually offered every term. *Prerequisite for General Education credit:* 33.105 or 33.110 or 33.140.

**12.300 Fundamentals of International Business (3)** An introductory course that studies the nature and scope of international trade and investment, international institutions, the international monetary system and exchange markets, and some of the major issues involved in the functional aspects of international business. Usually offered every term. *Prerequisite:* upper-division standing.

**12.301 International Marketing (3)** The concepts and practices of marketing across national borders and the adaptations to the marketing program required because of the different needs, environmental constraints, and forms of competition in foreign markets. Usually offered every term. *Prerequisite:* 11.300 and 12.300.

**12.302 International Finance (3)** The structure and nature of the international monetary system and the operation of exchange markets, foreign exchange exposure, and foreign capital markets. The cost of capital in an international context is also studied, as well as some of the major issues in international accounting, taxation, and banking. Usually offered every term. *Prerequisite:* 12.300 and 13.365.

**12.392 Cooperative Education Field Experience (3-6)**  
See description under Cooperative Education in this publication. *Prerequisite:* upper division standing and nine credit hours in business including any relevant business core courses specified by the department.

**12.401 Cultural Environment of International Business (3)** The cultural factors affecting international business operations and their influence on the principal business functions of finance, marketing, procurement, production, public and external relations, and research and development. Usually offered every term. *Prerequisite:* 12.300.

**12.404 Multinational Accounting Issues (3)** Major differences in selected national accounting systems, comparative accounting practices, currency translation and consolidation of financial statements, problems with infla-

tionary/deflationary currencies, transfer pricing, international financial disclosure, and multinational taxation issues. Usually offered every fall. *Prerequisite:* 14.241 and 12.300.

**12.408 Export-Import Management (3)** The management of the marketing processes of export/import operations, particularly for small and medium size firms. Topics include the decisions involved with export/import activities, market selection strategies, distributor and supplier selection considerations, financing operations, supporting documentation, and the general management of export/import marketing variables. Usually offered every term. *Prerequisite:* 12.301.

**12.420 International Business and Trade Seminar I (4)** Provides an in-depth introduction to the nature and workings of international business and trade through lectures and seminars with decision-makers in Washington, D.C. Also focuses on the functional operations of international business including marketing, HRM, finance, accounting, and international law. Usually offered every term. *Prerequisite:* Admission to the Washington Semester Program.

**12.421 International Business and Trade Seminar II (4)** Continuation of 12.420. *Prerequisite:* Admission to the Washington Semester Program.

**12.422 International Business and Trade Seminar Research Project (4)** For students in the program who wish to conduct substantive research. Students are encouraged to utilize the resources of the city through interviews, surveys, and examination of primary and secondary sources from government and private sector organizations. Usually offered every term. *Prerequisite:* Admission to the Washington Semester Program.

**12.423 International Business and Trade Internship (4)** An opportunity to intern with one of many national and multinational agencies and organizations while participating in this program. The work component is supplemented by class discussions and assignments. Usually offered every term. *Prerequisite:* Admission to the Washington Semester Program.

**12.490 Independent Study Project in International Business (1-3)** *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

### Graduate and Advanced Undergraduate Courses

**12.507 International Human Resource Management (3)** Focuses on the components of international human resource management and how they are used by multinational corporations. Students examine international compensation systems, international recruiting policies, international training and development programs, international labor relations issues, performance appraisal in the international environment, cross-cultural considerations, and safety and termination considerations. Usually offered every spring. *Prerequisite:* 12.300 or 12.600.

### Graduate Courses

**12.600 Manager in the International Economy (3)** The practices and principles involved in conducting the functional aspects of business in an international context;

includes the study of the nature, scope, and trends of international business as well as the international monetary system, international agreements, and considerations resulting from the environmental differences between nations. Usually offered every term. *Prerequisite:* 13.611.

**12.601 International Marketing (3)** The strategic approach to marketing products and services across national borders, including the modification of the elements of the marketing program to meet the different market needs, environmental constraints, and forms of competition in foreign markets. Usually offered every term. *Prerequisite:* 11.601 and 12.600.

**12.602 International Finance (3)** Financial operation of the multinational firm, including the sources of funds, foreign investment decisions, and international transactions and taxation. Also included is a study of the related aspects of the international monetary system, foreign exchange markets, and international banking. Usually offered every term. *Prerequisite:* 12.600 and 13.605.

**12.603 Comparative Management Systems (3)** The study of business organizational structures and management procedures in different international environments and the applications of important foreign developments in management for U.S. business. Usually offered every spring. *Prerequisite:* 10.610 and 12.600.

**12.605 Legal Issues of International Business (3)** An introduction to the legal issues facing international business, including a study of the international legal process, minimum standard, national laws and aliens, jurisdictional conflicts, transnational reach of national laws, and international contracts for distribution, licensing, and joint ventures. Usually offered every term.

**12.606 International Banking (3)** A focus on both the theory and practice of banking in an international context; also examines the reasons for the expansion of international banking, the economic role and operations of international financial markets, the strategies and activities of international banks, and the managerial problems encountered by international banks. Usually offered every term. *Prerequisite:* 12.600 and 13.605.

**12.690 Independent Study Project in International Business (1-6)** *Prerequisite:* authorization of instructor, department chair, and associate dean.

**12.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication. *Prerequisite:* Completion of Common Body of Knowledge (CBK) courses.

**12.701 Seminar in International Business (3)** Discussion of student research efforts on the conduct of international business in Western Europe, Latin America and the Caribbean, the Middle East and Africa, the Far East, or the Socialist countries. The research concentrates on the different business practices that are required because of the different cultural, economic, legal, and political environment of the region. Usually offered every term. *Prerequisite:* to be taken during the last semester of study for International Business majors.

## Finance and Real Estate

### Undergraduate Courses

**13.212 Personal Finance (3)** Investigation of the principles of personal financial management. Topics include budgeting, consumerism, taxes, credit, savings and savings instruments, insurance (life, health, automobile, fire, and property), housing, investments (stocks, bonds, mutual funds, annuities, and real estate), and estate planning. Usually offered every term.

**13.312 Survey of Investments (3)** This survey course in investments is for non-business majors. The course describes the risk-return characteristics of common and preferred stocks, bonds, mutual funds, and other investment alternatives and develops a framework for analyzing investments and their usefulness in forming investment portfolios. No math beyond basic algebra is required. Elementary concepts of accounting, economics, and financial markets necessary to understanding investment analysis are developed in the course. May be taken as a stand-alone course or as a continuation of 13.212. Usually offered every spring. *Prerequisite:* not open to students who have taken 13.469.

**13.365 Corporate Finance (3)** Introduction to business finance, including global aspects; acquisition and use of short-term funds and long-term capital; overview of money and capital markets; management of asset, liability, and capital accounts; financial analysis and time value of money; cash, operation, and long-range budgeting; leasing; corporate securities; dividend policy; and cost of capital. Usually offered every term. *Prerequisite:* 14.241, 42.202 and upper-division standing.

**13.392 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication. *Prerequisite:* upper-division standing and nine credit hours in business including any relevant business core courses specified by the department. Authorization of instructor and dean or department chair required.

**13.464 Financial Markets and Institutions (3)** The history, purposes, functions, and organizations of the short-term money market and long-term capital market. An integrated view of the participating institutions and the markets in which they operate, their investment constraints, and resulting portfolios. Usually offered every term. *Prerequisite:* 13.365.

**13.468 Financial Decision Making (3)** Investment, financing, and dividend-policy decisions of the financial manager. Case studies and problems are some of the tools used to enable the student to make and see the effects of financial decisions. Usually offered every term. *Prerequisite:* 13.365.

**13.469 Investment Analysis (3)** Investment objectives. Methods of appraising corporate equity, debt, and other securities. Portfolio theory and management, technical analysis, random walk theory, and the role of institutional investors. Case studies and computer simulation are used. Usually offered every term. *Prerequisite:* 13.365.

**13.474 Real Estate Finance and Economics (3)** Impact of the national economy on real estate; application of macroeconomics (GNP, consumer spending, inflation, in-

terest rates, and other data) to housing and commercial property; mortgage market analysis, including ARMs and creative financing, secondary mortgage markets, MBSS, CMOs, and other new developments in real estate finance. Usually offered every term. *Prerequisite:* 13.365.

**13.490 Independent Study Project in Finance and Real Estate (1-3)** *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

### Graduate and Advanced Undergraduate Courses

**13.571 Financial Futures and Options (3)** Extensive analysis of debt and equity-based futures contracts. Pricing considerations and other characteristics of futures contracts, characteristics of future exchanges and futures market participants, and applications of futures markets. Currency futures are considered to a limited extent. Options pricing and the nature and uses of options on stocks, stock indices, and debt instruments. Usually offered every spring. *Prerequisite:* undergraduate: senior finance or economics major with a B average or permission of department chair; graduate: 13.605 and one additional finance course.

**13.578 Real Estate Law (3)** A survey of the history and philosophy of real estate, its concepts and principles, legal relationships, and the functions of the law of real estate. Topics covered are rights fixtures, ownership, conveyance, acquisition, mortgages, agreements of sale, brokerage, landlord-tenant relations, zoning, eminent domain, and government regulations. Usually offered every fall. *Note:* not open to students who have taken 13.478 Basic Real Estate Law or 13.678 Real Estate and Property Law.

### Graduate Courses

**13.605 Financial Management (3)** An introduction to analytical techniques, such as ratios and present value, which form the basis of financial analysis. Emphasis on the corporate-asset investment decision including long-term capital budgeting, cash, inventory, and accounts receivable. An analysis of the financing media, capital and money markets, interest rates, risk-return determination, security valuation, cost of capital, dividend policy, and leasing. Includes global aspects of financial management. Usually offered every term. *Prerequisite:* 14.603 and 10.606.

**13.611 Managerial Economics (3)** Fundamental analytical tools of economics applicable to decision making. Research of empirical and theoretical studies and evaluation of their application to economic analysis in management. Usually offered every term. *Note:* not open to students who have taken 10.611 Managerial Economics.

**13.612 Business Economics (3)** Macroeconomic analysis and study of determinants of national income, output, employment, and price levels. National income accounting and classical as well as Keynesian economic models. Fiscal and monetary policy. Usually offered every term. *Prerequisite:* 13.611. *Note:* not open to students who have taken 10.612 Business Economics.

**13.650 Advanced Financial Management (3)** An in-depth exposure to long- and short-term corporate investment and financing decisions. Included are management

of cash balances, credit and inventory, capital budgeting of fixed assets under risk and inflation, leasing, cost of capital, acquisition analysis, mergers, leverage, and asset redeployment strategies. Usually offered every term. *Prerequisite:* 13.605.

**13.651 Financial Strategy (3)** Techniques and tools used in the development, assessment and implementation of a firm's financial strategy. Financial strategies about capital acquisition, capital structure, and asset utilization are examined. Case analysis is used. Usually offered every fall. *Prerequisite:* 13.605.

**13.655 Securities Analysis (3)** Topics include investment instruments and their characteristics; securities markets and their operations, securities valuation principles and models, three step valuation procedure; aggregate market analysis, industry analysis, company analysis, technical analysis; efficient market hypothesis, options, and futures. Usually offered every fall. *Prerequisite:* 13.605.

**13.656 Portfolio Theory and Management (3)** Portfolio theory and practice for managing equity and debt securities portfolios; portfolio construction, evaluation, and revision. Advanced topics on portfolio management such as portfolio insurance are covered. Usually offered every spring. *Prerequisite:* 13.605.

**13.665 Financial Statement Analysis (3)** Appraisal of prevailing techniques of statement analysis. Significance of generally accepted accounting principles. Development of analytic methods from the viewpoint of financial management. Usually offered every spring. *Prerequisite:* 13.605.

**13.671 Financial Management of Depository Institutions (3)** The determination of the financial structure and policies of individual depository institutions. Capital and dividend policies, investment policies, asset/liability management, and roles and effects of government regulation. Usually offered every fall. *Prerequisite:* 13.605.

**13.679 Real Estate and Land Economics (3)** Principles of real estate and land economics as a foundation for real estate analysis. The study of real estate economics. Studies of residential and commercial development; public facilities and improvements. Location theory, economic base, location and project difficulties and opportunities, land values and uses, urban rehabilitation and restoration, and neighborhood change. Usually offered every fall.

**13.683 Real Estate Analysis (3)** Market studies, feasibility analysis, re-use studies, appraisal, and other types of analyses relating to demand and supply of real estate in local markets. Sources of information. Analysis of population and changing city, residential, and commercial real estate. Forecasting. Specific research on real estate sites and projects. Usually offered every spring. *Prerequisite:* 13.679.

**13.684 Real Estate Finance and Mortgage Markets (3)** Financing instruments and methods used in real estate. Sources and uses of private funds, mortgage markets, primary and secondary mortgage market-makers, and investment-type instruments. Alternative mortgage instruments and creative financing techniques. Selected case studies and research. Usually offered every fall. *Prerequisite:* 13.605.

**13.690 Independent Study Project in Finance and Real Estate (1-6)** *Prerequisite:* authorization of instructor, department chair, and associate dean.

**13.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication. *Prerequisite:* Completion of Common Body of Knowledge (CBK) courses.

**13.765 Seminar in Finance (3)** Capstone seminar dealing with current issues and recent developments in corporate financial management, investments, and financial institutions. Extensive literature review and research project. Usually offered every fall and spring. *Prerequisite:* three advanced finance courses or permission of department chair.

**13.776 Seminar in Real Estate Development and Financial Markets (3)** This capstone seminar is divided into two modules. One module examines the real estate development process, including site acquisition, land assembly, construction and sale. The other includes secondary markets, unilateralized mortgage obligations, mortgage backed securities, and markets for securitizing commercial mortgages and rents. Required for all graduate real estate majors. Usually offered every spring. *Prerequisite:* 13.679, 13.684, or permission of department chair or director of Real Estate Center.

## Accounting and Taxation

### Undergraduate Courses

**14.201 Business Law (3)** The scope of business law. Individual, business, and legal relationships. Legal concepts, philosophy, and functions. Federal and state court systems. Survey of contracts, sales, agency, business forms, and property. Introduction to negotiable instruments. Usually offered every term. *Prerequisite:* sophomore standing.

**14.202 Advanced Business Law (3)** Functions, form, and content of commercial paper. Law of real and personal property. Legal bibliography. Legal requirements of business. Case research. Usually offered every term. *Prerequisite:* 14.201.

**14.240 Principles of Accounting I (3)** Basic principles underlying financial statements. Assets, equities, and income measurement. Usually offered every term. *Prerequisite:* sophomore standing.

**14.241 Principles of Accounting II (3)** Continuation of 14.240. Introduction to fundamentals of management accounting for planning and control. Uses of accounting data. Usually offered every term. *Prerequisite:* 14.240.

**14.340 Intermediate Accounting I (3)** Valuation of assets and equities. Measurement of business income. Generally accepted accounting principles. Financial statements and analysis. Usually offered every term. *Prerequisite:* Completion of 14.240 and 14.241 with a C or higher; and upper-division standing.

**14.341 Intermediate Accounting II (3)** Continuation of 14.340. Accounting issuances by the APB and FASB. Financial statements and analysis. Usually offered every term. *Prerequisite:* 14.340 and upper-division standing.

**14.345 Cost Accounting (3)** Uses of accounting data for planning, control, and decision making. Budgets and standard costs. Concepts and techniques. Usually offered every term. *Prerequisite:* 14.241 and upper-division standing.

**14.392 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication. *Prerequisite:* upper-division standing and nine credit hours in business including any relevant business core courses specified by the department. Permission of department chair.

**14.443 Taxation I (3)** Introduction to federal income taxation of individuals. Usually offered every term. *Prerequisite:* 14.241 and upper-division standing.

**14.444 Taxation II (3)** Selected topics in federal income tax for individuals, partnerships, and corporations. Specialized areas such as estates and trusts. Usually offered every term. *Prerequisite:* 14.443.

**14.449 Auditing (3)** Auditing objectives, standards, and procedures. Audit workpapers. Tests and sampling. Usually offered every term. *Prerequisite:* 14.340.

**14.450 Introduction to Accounting Information Systems (3)** Concepts and techniques of analyzing computer-based accounting information systems. Usually offered every term. *Prerequisite:* 14.241 and 10.352 or permission of the department chair.

**14.480 Accounting Theory and Problems (3)** Accounting issuances of FASB and APB. General principles of theory. General price level and current value. Usually offered every term. *Prerequisite:* 14.341 or permission of department chair.

**14.490 Independent Study Project in Accounting (1-3)** *Prerequisite:* upper-division standing and authorization of instructor, department chair, and associate dean.

### Graduate and Advanced Undergraduate Courses

**14.547 Advanced Financial Accounting (3)** Theory and practices of accounting for partnerships, business combinations, and consolidated financial statements. Advanced topics in financial accounting. Usually offered every term. *Prerequisite:* 14.341 or 14.641 or permission of department chair.

### Graduate Courses

**14.602 Legal Environment of Professional Accounting (3)** A study of the legal environment of business with emphasis on aspects of business law of particular importance to professional accountants. Ethical, social, and political considerations as they affect business organizations and the practice of public accountancy are also emphasized. Usually offered every spring.

**14.603 Accounting Concepts and Applications (3)** Fundamentals, concentrating on the uses of accounting as a tool of management. The strengths and limitations of accounting as an information system. Topics selected from both financial and managerial aspects of accounting and focus on the underlying concepts of accounting, the role of accounting in management planning and control, and the usefulness of accounting data for evaluating the results



of operations and making decisions. Usually offered every term.

**14.604 Federal Income Taxation (3)** A study of federal income tax laws relating to individuals, partnerships, and corporations. Usually offered every term. *Prerequisite:* 14.603 or permission of department chair.

**14.621 Financial Accounting and Reporting (1.5)** Conceptual framework, methodological approaches and problematic applications of financial accounting theory. Emphasis on the relationship between generally accepted accounting principles and the preparation of financial statements. Consideration of the organization of the accounting profession, its ethics and responsibilities, and the impact of governmental and private sector organizations on current accounting issues. *Prerequisite:* 18.608.

**14.622 Asset Valuation and Reporting (1.5)** In-depth analysis of financial accounting principles and problems applicable to asset valuation and reporting. Topics include cash and receivable transactions, inventory valuation, depreciation alternatives, intangible assets, accounting for investments, and implications for income determination. *Prerequisite:* 18.607.

**14.623 Financial Accounting for Debt and Equity (1.5)** In-depth analysis of debt and equity transactions and reporting issues. Topics include current and long-term liabilities, stockholders' equity, related income determination issues and earnings per share disclosures. *Prerequisite:* 18.607

**14.624 Special Topics in Financial Accounting (1.5)** Application of financial accounting theory to complex special problems. Topics include revenue recognition dilemmas, accounting for income taxes, pensions and post-retirement benefits, leases, accounting changes, and cash flow reporting. *Prerequisite:* 18.607.

**14.625 Managerial Accounting: Cost Behavior and Determination (1.5)** Study of the concepts, principles and techniques of cost and management accounting as used in complex organizations. Special emphasis on estimating cost behavior, CVP analysis, allocating common costs, government contracting and determining the cost of manufactured goods. *Prerequisite:* 18.608

**14.626 Accounting for Management Planning and Control (1.5)** Systems and techniques for determining and controlling costs for management planning and decision-making. Topics include profit planning and budgeting, short-term decision-making, capital budgets, inventory control, job and process costing, standard costing, responsibility accounting and performance evaluation. *Prerequisite:* 18.608

**14.627 Federal Income Taxation: Individuals (1.5)** A study of federal income tax laws relating primarily to individuals and proprietary businesses. Emphasis is given to the determination of gross income, allowable personal and business deductions, depreciation and employee expenses. *Prerequisite:* 18.608

**14.628 Federal Income Taxation: Business Entities (1.5)** A study of federal income tax laws relating to capital transactions, partnerships, corporations, and wealth transfer. Topics include property transactions, capital

gains and losses, corporate formation, operation, liquidation and dividends, taxation of partnership distributions, and S Corporations. *Prerequisite:* 18.608.

**14.630 Legislative and Judicial Foundations of Income Tax (3)** Legislative and judicial concepts common to all areas of income taxation. Emphasis on analysis of court decisions to trace the development of judicial doctrines. Subject areas: substance over form, characteristics of income, dispositions of assets, capital gains and losses, tax credits, limitations on business expenses and losses, tax accounting principles. Usually offered every term. *Prerequisite:* admission to the graduate tax program or permission of program director.

**14.631 Tax Research and Procedure (3)** Thorough analysis of techniques for performing sophisticated tax research: looseleaf services, treatises, IRS sources, court decisions. Analysis of tax procedure: IRS organization; audit procedures; assessment, collection, and refund; limitations; penalties; responsibility in tax practice. Emphasis on practical applications. Usually offered every term. *Prerequisite:* admission to the graduate tax program or permission of program director.

**14.632 Estate and Gift Tax (3)** Detailed analysis of the federal estate and gift taxes and an overview of the income taxation of estates and trusts (Subchapter J). Usually offered every fall. *Prerequisite:* 14.630 or 14.631 or permission of program director.

**14.633 Corporation Income Taxation I (3)** Income taxation of corporations and their shareholders: organization, capital structure, dividends and other nonliquidating distributions, redemptions, liquidations, taxation of S corporations. Usually offered every fall. *Prerequisite:* 14.630 or permission of program director.

**14.640 Financial Accounting I (3)** Conceptual framework, methodological approaches, and problematic applications of financial accounting theory. Emphasis on the relationship between generally accepted accounting principles and the preparation of financial statements. Usually offered every term. *Prerequisite:* 14.603 or permission of department chair.

**14.641 Financial Accounting II (3)** A continuation of 14.640 with special emphasis on financial accounting issues and problems related to authoritative pronouncements of the APB and FASB. Income measurement, valuation of assets and equities, and financial reporting and analysis. Usually offered every term. *Prerequisite:* 14.640.

**14.645 Managerial Cost Accounting (3)** Uses of accounting data for managerial decision making. Concepts and techniques of planning and control relating to budgets, standard costs, and relevant costs. Cost accounting systems: job order and process. Usually offered every term. *Prerequisite:* 14.603 or permission of department chair.

**14.648 Legal Concepts of Business Organizations (3)** An intensive introduction to law and the legal system. Usually offered every term.

**14.649 Auditing Theory and Practice (3)** Auditing objectives and procedures. Generally accepted auditing standards, audit tests, sampling procedures and reporting

requirements. Professional ethics. Usually offered every term. *Prerequisite:* 14.640.

**14.650 Accounting Information Systems (3)** Concepts and techniques of analyzing, designing, and implementing accounting information systems. Evaluation of computer and non-computer-based information systems for organizations of various kinds. Usually offered every fall. *Prerequisite:* 14.603 and 10.655 or permission of department chair.

**14.651 Accounting Information Systems: Transaction Processing (1.5)** The study and development of accounting information systems related to manual and automated transaction processing. Topics include mainframe and microcomputer systems, specialized application software, data modeling, databases, and vertical market accounting information systems. *Prerequisite:* 18.608 and 18.616.

**14.652 Accounting Information Systems: Control and Special Topics (1.5)** A study of internal control issues related to automated systems, EDP auditing, computer crime, and AIS design and documentation. Special topics include decision support systems, expert systems, and advanced technologies. *Prerequisite:* 18.608 and 18.616.

**14.653 Auditing Theory, Concepts and Standards (1.5)** An intensive study of auditing theory, generally accepted auditing standards, and the responsibilities and ethics of the auditing profession. Topics include assessment of audit risks, evidential matter and audit tests, internal controls, EDP auditing, attribute sampling, internal auditing, and basic audit reports. Consideration of the impact of governmental and private sector organizations on auditing standards and practices. *Prerequisite:* 18.607.

**14.654 Auditing Applications and Reports (1.5)** In-depth study of the audit of transaction cycles, audit reports, and professional audit responsibilities. Topics include substantive tests, subsequent events, professional liability, standard and special reports, SEC and other statutory provisions, compilation and review services, and reporting under government auditing standards. *Prerequisite:* 14.653.

**14.660 Governmental, Not-for-Profit, and Fiduciary Accounting (3)** Municipal, state, federal government, and not-for-profit accounting and the traditional coverage of estates and trust and corporate reorganization and liquidation. Usually offered every spring. *Prerequisite:* 14.640 or permission of department chair.

**14.661 Accounting For Governmental Organizations (1.5)** Accounting and financial reporting concepts and standards applicable to local, state and federal governmental entities. Emphasis on the unique nature and information needs of governmental units in contrast with private sector organizations and on improved public financial management. *Prerequisite:* 18.607 or permission of department chair.

**14.662 Accounting and Financial Management: Not-for-Profit Organizations (1.5)** Accounting and financial management concepts and standards applicable to colleges and universities, health care entities, voluntary health and welfare organizations, and other nonprofit entities. *Prerequisite:* 14.661.

**14.670 Accounting for Multinational Operations (3)** Basic concepts and technical issues in international accounting. A broad introduction to the international business dimension as a context for in depth study of accounting in a multinational environment. Topics include internationalization of accounting standards, currency translation problems, transfer pricing, and comparative practices in reporting. Usually offered every spring. *Prerequisite:* 14.603.

**14.671 Accounting in a Multinational Environment (1.5)** In depth study of the external and internal accounting and reporting problems associated with multinational business entities. Topics include accounting diversity and capital market effects, international financial statement analysis, management control of global operations, performance evaluation systems, international transfer pricing and emerging issues. *Prerequisite:* 18.608.

**14.672 International Accounting: Technical Issues (1.5)** Contemporary accounting problems in a multinational environment. Topics include comparative accounting systems, accounting for foreign currency transactions and translation, harmonization of international accounting and auditing standards, and multinational taxation issues. *Prerequisite:* 18.608.

**14.690 Independent Study Project in Accounting (1-6)** *Prerequisite:* authorization of instructor, department chair, and associate dean.

**14.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication. *Prerequisite:* permission of department chair and instructor and completion of Common Body of Knowledge (CBK) courses.

**14.739 Managerial Accounting and Business Policy (3)** Integration of managerial aspects of accounting, business policy, and the managerial functions of strategic decision making, planning, and control. Consideration of both quantitative and behavioral aspects. Case methodology. Usually offered every spring. *Prerequisite:* 14.641, 14.645, and permission of department chair.

**14.740 Corporation Income Taxation II (3)** A continuation of 14.633: accumulated earnings and personal holding-company penalty taxes, collapsible corporations, corporate reorganizations, carryover of corporate tax attributes, multiple corporations, and consolidated returns. Usually offered every spring and summer. *Prerequisite:* 14.630 and 14.633.

**14.741 State and Local Taxation (3)** Examination of the constitutional and practical constraints on taxing jurisdiction of state and local governments. Topics: conformity with federal law, apportionment of income, multistate and multinational corporation problems, transaction taxes, property taxes, death and gift taxes. Detailed analysis of the Uniform Division of Income for Tax Purposes Act (UDITPA). Offered irregularly. *Prerequisite:* admission to the graduate tax program or permission of program director.

**14.742 Special Tax Topics (1-3)** Selected specialized tax topics or analysis of current tax legislation. Topics might include taxation of banks, insurance companies, security transactions, tax exempt organizations, cooperatives, or

natural resources. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* permission of program director.

**14.743 International Taxation (3)** U.S. tax law related to investment by U.S. persons overseas and foreign persons in the United States. Specific topics include the foreign tax credit, Subpart F, PFIC's, FSCs transfer pricing, FIRPTA, section 911, and the role of tax treaties. Usually offered every summer. *Prerequisite:* 14.630 and 14.633.

**14.744 Advanced Topics in Tax Accounting and Procedure (3)** A continuation of the tax accounting and procedure coverage in the core courses. Tax accounting; long-term contracts advanced inventory considerations. Procedure: written determinations and rulings, liens, crimes, judicial proceedings, mitigation of limitations. Offered irregularly. *Prerequisite:* 14.630 and 14.631.

**14.745 Employee Benefit Tax Planning (3)** Analysis of income tax aspects of compensation benefits for employees at all levels and for self-employed persons. Detailed consideration of qualified pension and profit-sharing plans, individual retirement accounts, Keogh plans, statutory and nonstatutory stock options, and other fringe benefits (life insurance, medical plans, etc.). Offered irregularly. *Prerequisite:* 14.630.

**14.746 Taxation of Real Estate Transactions (3)** Income tax aspects of acquiring, operating, and disposing of investment and personal real estate. Detailed consideration of deductions (including ACRS), conventional and creative financing techniques, foreclosures and repossessions, subdivision, sale/leaseback transactions, tax-deferred exchanges, involuntary conversions, sale of a principal residence, and special problems of agricultural property. Usually offered every summer. *Prerequisite:* 14.630 or permission of program director.

**14.747 Partnership Taxation (3)** Income tax aspects of transfers to a partnership, distributions, withdrawal or death of a partner, dissolution, sales and exchanges of partnership interests, special partnership allocations, use of the partnership as a vehicle for investment syndication. Usually offered every term. *Prerequisite:* 14.630.

**14.750 Tax Policy (3)** Study of the economic, social, ethical, and political forces in the development of tax policy. Specifically addressed are alternative approaches to taxing income, the practical political environment of enacting tax legislation, and the international influences on U.S. tax policy. Usually offered every spring. *Prerequisite:* student should be in the final semester of the graduate tax program or have permission of program director.

**14.751 Seminar in Business Tax Planning (3)** Use of case methodology to integrate tax considerations with accounting, economic, managerial, and nontax legal considerations for planning corporate transactions. Topics: organization of a close corporation, dividends and other corporate distributions, corporate combinations, corporate liquidations, corporate divisions. Usually offered every fall. *Prerequisite:* 14.633 or permission of program director.

**14.752 Seminar in Family Financial Planning (3)** Use of case methodology to integrate income, estate, and gift tax implications with nontax legal considerations in establishing a financial plan within the family unit. Included is

detailed consideration of income taxation of estate and trusts (Subchapter J). Topics: estate-planning legal mechanisms, charitable and family gifts, private foundations, disposal of business interests. Usually offered every spring. *Prerequisite:* 14.632.

**14.780 Seminar in Accounting Theory (3)** Development of accounting theory. Analysis of current accounting problems and review of relevant literature. Usually offered every spring. *Prerequisite:* 14.547 or permission of department chair.

**14.797 Master's Thesis Seminar (3-6)** Subject matter of the paper and scope of research are determined by the student in consultation with the appropriate graduate accounting faculty. Usually offered every term. *Prerequisite:* permission of department chair.

## Chemistry

### Undergraduate Courses

**15.100 Chemistry for the Modern World /N 5:1 (3)** A general introduction to chemistry leading to biochemistry and the chemistry of life. Study of the composition of materials, their structures and properties, related energy conversions, and the use of molecular genetic information. Questions of scientific inquiry and the scientific method in cultural and historical contexts are considered. Two hours of lecture each week and three hours of laboratory work each week. Usually offered every term. *Prerequisite:* completion of the College Mathematics Requirement or concurrent enrollment in a mathematics or statistics course that has 41.150 Finite Mathematics as a prerequisite.

**15.110 General Chemistry I /N 5:1 (4)** A general introduction to chemistry: the scientific method; atomic structure; stoichiometry and chemical reactions; heat changes; electronic structure of atoms; molecular geometry; and liquid, solid, gas, and solution chemistry. This course provides a sound basis in concepts, vocabulary, and analytical problem solving. Related laboratory work covers: the scientific method, measurements using scientific apparatuses, collection and manipulation of data, error analysis, and illustration of scientific principles. Two and a half hours of lecture and three hours of laboratory work each week. Usually offered every term. *Prerequisite:* completion of the College Mathematics Requirement or concurrent enrollment in a mathematics or statistics course that has 41.150 Finite Mathematics as a prerequisite.

**15.200 Human Biochemistry and Health /N 5:2 (3)** Biochemical principles of health and fitness examined by considering the structures, functions, and energetics of the molecules found in human beings. Description of molecular and practical aspects of personal health and nutrition with emphasis on weight control, fitness, and optimal athletic performance. Discussion of drugs, the biotechnological revolution, and genetic engineering as they apply to exercise and health. Three hours of lecture and one hour of discussion per week. Occasional laboratory sessions are required for Honors students. Usually offered every spring. *Prerequisite for General Education credit:* 15.100 or 15.110 or 09.100 or 09.110 or 57.115.

**15.210 General Chemistry II /N 5:2 (4)** Topics covered: oxidation-reduction reactions, reaction rates, equilibrium and its relation to thermodynamics, acid-base chemistry and its practical applications, electrochemistry, molecular bonding theory, and nuclear chemistry. Related laboratory work covers: titration techniques, spectroscopic analysis, kinetics experiments, and introduction to qualitative and quantitative analysis. Two and a half hours of lecture and three hours of laboratory work each week. Usually offered every spring. *Prerequisite* for all students, and for General Education credit: 15.110.

**15.220 Environmental Chemistry /N 5:2 (3)** General discussion of the chemistry of our environment, including description of the ideal unpolluted environment and a historic view of pollution. Classes and interactions of pollutants with the environment are described. Emphasis is placed on understanding the chemistry of pollutants and how they affect our quality of life. Usually offered every spring. *Prerequisite* for General Education credit: 15.100 or 15.110 or 09.100.

**15.230 Earth Sciences /N 5:2 (3)** Combines geology, geophysics, and geochemistry in describing the evolution of our planet, the deep structure of the earth, its plate tectonic evolution, and interaction of the crust with the hydrosphere, biosphere, and atmosphere. Three hours of lecture each week with occasional laboratory demonstrations and field trips. Usually offered every term. *Prerequisite* for General Education credit: 15.100 or 15.110 or 51.100 or 51.105 or 51.110. *Note*: not open to students who have taken 15.103 Earth Sciences.

**15.310 Organic Chemistry I (3)** Systematic treatment of hydrocarbons, alkyl halides, alcohols, carbonyl compounds, acids, and their derivatives. Ionic and free radical reactions and stereochemistry. Three hours of lecture. Usually offered every fall. *Prerequisite*: 15.210. Must be taken concurrently with 15.312.

**15.312 Organic Chemistry I Laboratory (1)** Laboratory theory and practice in synthesis, separation, and purification of organic compounds. Introduction to modern separation techniques including thin-layer, column, and gas chromatography. Usually offered every fall. *Prerequisite*: concurrent registration in 15.310.

**15.320 Organic Chemistry II (3)** Aliphatic and aromatic compounds and electrophilic substitution; spectral methods; and nitrogen compounds and their derivatives. Introduction to polyfunctional compounds including amino acids, carbohydrates, lipids, and nucleic acids. Three hours of lecture. Usually offered every spring. *Prerequisite*: 15.310. Must be taken concurrently with 15.322.

**15.322 Organic Chemistry II Laboratory (1)** Multistep syntheses. Synthesis of polyfunctional compounds. Introduction to infrared and nuclear magnetic resonance spectra. Qualitative organic analysis. Four hours of laboratory. Usually offered every spring. *Prerequisite*: must be taken concurrently with 15.320.

**15.350 Quantitative Analysis (3)** Theory of acid-base, complexation, precipitation, and redox equilibria. Volumetric and gravimetric analyses. Separations. Statistical analysis of data. Separation and analysis of complex mix-

tures. Usually offered alternate falls. *Prerequisite*: 15.210 and 41.221. Must be taken concurrently with 15.351.

**15.351 Quantitative Analysis Laboratory (2)** Practice in classical analytical methods of analysis, including precipitation titrations and gravimetric analysis; neutralization titrations and potentiometric methods; oxidation, reduction, and complex formation titrations; and electrochemical methods. Computer-assisted statistical analysis of data. Six hours of laboratory. Usually offered alternate falls. *Prerequisite*: must be taken concurrently with 15.350.

**15.390 Independent Reading Course in Chemistry (1-6)**

**15.398 Honors: Junior Year (1-3)** Independent chemical laboratory research project under the direction of a faculty adviser. Progress reports may be required at the discretion of the adviser. Usually offered every fall. *Prerequisite*: 15.320/15.322, and permission of department chair and university honors director.

**15.399 Honors: Junior Year (1-3)** See description of 15.398. Usually offered every spring and summer. *Prerequisite*: 15.320/15.322, concurrent registration in 15.507, a grade of B or higher in 15.398 if taken, and permission of department chair and university honors director.

**15.401 Geology (3)** Study of the interior and exterior of the earth and how it works. Focus is on the processes that shape the earth's surface: weathering, mass-wasting, water, wind, glaciers, and plate tectonics. The evolution of the earth including the impact of earthquakes, rock deformation, and landscape evolution. The impact of the need for energy and mineral resources is also considered. Usually offered every spring. *Prerequisite*: 15.110.

**15.410 Physical Chemistry I (3)** Macroscopic theories of the behavior of molecules: laws of thermodynamics, heat pumps and entropy; phase and chemical equilibria; solutions; noncovalent interactions; transport phenomena. Usually offered alternate falls. *Prerequisite*: 15.210, and prior or concurrent registration in 41.223. Must be taken concurrently with 15.411.

**15.411 Physical Chemistry I Laboratory (2)** Experiments in thermodynamics to accompany 15.410. Six hours of laboratory. Usually offered alternate falls. *Prerequisite*: must be taken concurrently with 15.410.

**15.420 Physical Chemistry II (3)** Microscopic theories of the behavior of molecules: rates and mechanisms of chemical reactions; quantum mechanics of model systems; atomic and molecular structure; spectroscopy; statistical thermodynamics. Usually offered alternate springs. *Prerequisite*: 15.410. Must be taken concurrently with 15.421.

**15.421 Physical Chemistry II Laboratory (2)** Experiments in chemical kinetics and spectroscopy to accompany 15.420. Six hours of laboratory. Usually offered alternate springs. *Prerequisite*: must be taken concurrently with 15.420.

**15.460 Instrumental Analysis (3)** Theory of optical and electroanalytical methods, including spectrophotometry, fluorometry, spectrography, and flame and atomic spectroscopy, ion-selective electrodes, polarography; amperometry; mass spectrometry; chromatography; elec-

tronics; radiometric techniques; isotope dilution; and neutron activation analysis. Analysis of errors. Usually offered every spring. *Prerequisite:* 15.350 and 41.222; must be taken concurrently with 15.461.

**15.461 Instrumental Analysis Laboratory (2)** Practice in modern methods of instrumental analysis including atomic absorption and emission spectroscopy; gas and high pressure liquid chromatography; nuclear magnetic resonance, ultraviolet, visible, infrared, and fluorescence spectroscopy; and measurements with ion selective electrodes. Six hours of laboratory. Usually offered every spring. *Prerequisite:* must be taken concurrently with 15.460.

**15.490 Independent Study Project in Chemistry (1-6)**

**15.491 Internship (1-6)**

**15.498 Honors: Senior Year (1-3)** See description of 15.398. Usually offered every fall. *Prerequisite:* 15.420/15.421, 15.460/15.461, a grade of B or higher in 15.398 if taken, and permission of department chair and university honors director.

**15.499 Honors: Senior Year (1-3)** See description of 15.398. A senior thesis must be written and the results of research presented at a departmental seminar. Usually offered every spring. *Prerequisite:* a grade of B or higher in 15.498, prior or concurrent registration in 15.507, and permission of department chair and university honors director.

## Graduate and Advanced Undergraduate Courses

**15.501 Principles of Analytical Chemistry (3)** For beginning graduate students. Spectroscopic and chromatographic techniques, electrochemistry, and data treatment. Two hours of lecture and three hours of laboratory. Usually offered every spring. *Prerequisite:* 15.350.

**15.506 Human Physiological Chemistry (3)** Cell structure, structures and functions of amino acids, peptides, and proteins. Characteristics of blood, hemoglobin, and enzymes. Central metabolism and bioenergetics. Neurotransmission and muscle contraction. Metabolism of carbohydrates, fatty acids, lipids, and amino acids. Hormonal regulation. Experiments coordinated with the lectures. Two hours of lecture and two hours of laboratory. Usually offered every spring. *Prerequisite:* 15.210 or permission of the Chair of the Department of Health and Fitness. *Note:* May not be used to fulfill requirements in either chemistry or biology degree programs.

**15.507 Chemical Literature (1)** Abstracts, journals, patents, and other sources. Practice in conducting library and on-line computer literature searches. One hour of lecture and occasional laboratory sessions. Usually offered every spring. *Prerequisite:* 15.320/15.322.

**15.520 Advanced Organic Chemistry I (3)** Principles of physical organic chemistry. Bonding and conformational analysis; nucleophilic substitution at carbon; elimination and addition reactions; carbene chemistry; and cycloaddition reactions. Usually offered every fall. *Prerequisite:* 15.420.

**15.521 Advanced Organic Chemistry II (3)** Synthetic and mechanistic aspects of the chemistry of carbonyl

compounds. Acylations, alkylations, and other condensations; oxidation and reduction reactions. Application of orbital symmetry correlations to organic reactions. Usually offered every spring. *Prerequisite:* 15.520.

**15.522 Interpretation of Spectra (3)** Practical interpretation of ultraviolet, infrared, nuclear magnetic resonance, and mass spectra for organic chemists and biochemists. Elucidation of structures and kinetic processes. Usually offered every spring. *Prerequisite:* 15.420.

**15.525 Problem Solving in Organic Chemistry (1)** Provides experience in solving problems in mechanistic and synthetic organic chemistry for graduate students planning to take comprehensive examinations in organic chemistry. Usually offered every fall. *Prerequisite:* 15.520 and 15.521.

**15.546 Thermodynamics and Statistical Mechanics (3)** Macroscopic and microscopic theories of the properties and interactions of molecules: laws of thermodynamics; phase transitions; solutions; colligative properties; ionic solutions and polyelectrolytes; statistical thermodynamics; quantum statistics. Usually offered alternate years. *Prerequisite:* 15.420.

**15.550 Advanced Inorganic Chemistry (3)** Electronic structure of atoms, periodic trends, bonding and structure of covalent compounds, electronegativity, bonding and structure of coordination complexes, acids and bases, organometallic chemistry, and bioinorganic chemistry. Usually offered every fall. *Prerequisite:* 15.420.

**15.551 Topics in Inorganic Chemistry (3)** Molecular symmetry, transition metal spectra, mechanisms of inorganic reactions, boron chemistry, organometallic chemistry, inorganic polymers, bioinorganic chemistry, and energy conversion. Usually offered alternate springs. *Prerequisite:* 15.550.

**15.560 Biochemistry I (3)** Water and hydrogen bonding. Structures and functions of amino acids, peptides, proteins, and nucleic acids. Introduction to molecular genetics and genetic engineering. Hemoglobin, allostery, and sickle-cell anemia. Enzyme kinetics and mechanisms. Enzyme evolution and regulation. Protein activation in digestion, blood clotting, and the immune response. Membrane structures and functions. Metabolic principles, bioenergetics, and glycolysis. Three hours of lecture and one hour of seminar. Usually offered every fall. *Prerequisite:* 15.320.

**15.561 Biochemistry II (3)** Mitochondrial compartmentation and functions, Krebs cycle, electron transport, and oxidative phosphorylation. Mitochondrial pumps and membrane transport. Metabolic pathways and hormonal regulation. Further consideration of DNA organization, replication, mutation, repair, expression, and movement. Viruses. Immunoglobulin structure and diversity. Biotechnological methods. Three hours of lecture and one hour of seminar. Usually offered every spring. *Prerequisite:* 15.560.

**15.565 Physical Biochemistry (3)** Use of physical models to describe the behavior of biological macromolecules. Topics include: ligand and effector binding; allosteric interactions; protein folding; helix-coil transitions; RNA structure analysis; supercoiled DNA; absorbance, fluorescence and scattering techniques; hydrodynamic tech-

niques, NMR and x-ray crystallography. Usually offered alternate springs. *Prerequisite:* 15.420 and 15.560.

**15.570 Computers in Chemistry (3)** Introduction to applications of electronic computers in chemistry. Practice in using IBM and Macintosh personal computers. Applications include statistical analysis of data, simulation and modeling. Algorithms, flow charts, and programming in Pascal. Communication between mainframe and microcomputers. Use of on-line and optical disk chemical information data bases. Three hours of lecture with occasional laboratory sessions. Usually offered alternate falls. *Prerequisite:* 15.320 and 40.260 or 40.280.

**15.590 Independent Reading Course in Chemistry (1-6)**

### Graduate Courses

**15.600 Special Topics in Chemical Literature (1-3)** Based upon articles from recent issues of chemical journals with special sections in the chemical subdisciplines. This course is intended to foster discrimination in selecting papers, an analytical approach to reading, the ability to retain the critical elements presented and an understanding of the advanced concepts that provide the underpinnings for the papers. These abilities should be of particular value in preparing for the comprehensive examinations. May be repeated for credit within the same term; topic may be the same. Usually offered every term.

**15.601 Research Seminar in Chemistry (1-3)** Various topics in advanced chemistry with contents selected according to need and the chemical subdisciplines. Concentrates on research design and implementation. May be repeated for credit within the same term; content/topic may be the same. Usually offered every term.

**15.610 Advanced Analytical Chemistry (3)** Modern techniques, including ion-selective electrodes, fluorescence and phosphorescence analysis, atomic absorption spectrometry, far infrared spectroscopy, nuclear magnetic resonance, microwave spectroscopy, nuclear quadrupole spectroscopy, electron and photoelectron spectroscopy, neutron activation analysis, and the use of computers. Usually offered alternate falls. *Prerequisite:* 15.460.

**15.618 Special Topics in Analytical Chemistry (3)** Presentation of current research activity. May be repeated for credit within the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* consult department.

**15.628 Special Topics in Organic Chemistry (3)** Woodward-Hoffman Orbital Symmetry Correlation Rules and their application; organic photochemistry; heterocyclic chemistry; applications of NMR to the study of rates of dynamic processes. May be repeated for credit within the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* consult department.

**15.642 Chemical Kinetics (3)** Phenomenological and theoretical descriptions of the rates of chemical reactions; simple and complex mechanisms; fast reactions; flow systems; pharmacokinetics; catalysis; chain reactions and explosions; autocatalytic and oscillating reactions; chaos. Usually offered alternate years. *Prerequisite:* 15.420.

**15.661 Enzyme Kinetics and Mechanisms (3)** Computer-assisted modeling of protein structures. Chemical catalysis. Enzyme kinetics and computer-assisted determination of kinetic parameters. Approximation, distortion, covalent catalysis, general acid-general base catalysis, hydrogen bonding, and hydrophobic and electrostatic effects in enzyme mechanisms. Physical studies of enzymes. Isotope effects, pH effects, chemical modification, affinity labeling, and transition-state analog inhibition in studies taken from the current literature. Offered irregularly. *Prerequisite:* 15.561.

**15.664 Chemistry of Carbohydrates (3)** Elucidation of chemical structures, conformations, and reactions of monosaccharides. When pertinent, the biological activity of a given carbohydrate is considered. Usually offered alternate falls. *Prerequisite:* 15.580.

**15.670 Principles of Pharmacology (3)** Basic principles including absorption, distribution, biotransformation and excretion of drugs. Structure-activity relationships and physical and chemical properties of drugs are discussed. Comparative pharmacology, and therapeutic and toxicological drug effects also are included. Usually offered alternate springs. *Prerequisite:* 15.550, 15.560, and a course in physiology or permission of instructor.

**15.671 Principles of Toxicology (3)** Basic principles of how chemicals, drugs, and natural products alter biological systems. Mechanisms and conditions under which harmful effects may occur are emphasized. Also considered are biological and chemical factors that influence toxicity; routes of administration; experimental design; special tests; statistical analysis of data; extrapolation of animal data to man; and regulatory aspects of toxicology. Usually offered every fall. *Prerequisite:* 15.320.

**15.680 Chemical Mutagens and Carcinogens (3)** Metabolic activation and deactivation, and mechanisms of action of polycyclic aromatic hydrocarbons, aromatic amines, azo and N-nitroso compounds, nitro aromatics, natural products, and alkylating agents. Short-term testing methods. Usually offered alternate springs. *Prerequisite:* 15.561; 15.671 is recommended.

**15.681 Bioinorganic Chemistry (3)** Metals in biochemistry, with emphasis on metal toxicity and metabolism of toxicants. Natural abundance, uptake, and storage. Diseases of deficiency and excess. Iron and copper in oxygen carriers and redox enzymes. Cobalt and group transfers. Zinc metalloenzymes. Nitrogenase. Group Ia and IIa metals. Toxic metals. Usually offered alternate falls. *Prerequisite:* 15.320. 15.550 is recommended.

**15.682 Toxicological Testing (3)** A survey of the principal methods used to assess the toxicity of chemicals, covering acute and chronic tests using animals and short-term *in vitro* alternatives that are being developed. The scientific basis of and limitations of each test are examined. Genetic toxicology is a special focus. Usually offered every spring. *Prerequisite:* concurrent or prior registration in 15.671 or permission of instructor.

**15.690 Independent Study Project in Chemistry (1-6)**

**15.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**15.700 Seminar in Chemistry (1)** Selected topics. Preparation and presentation of a paper of professional quality. Usually offered every fall and spring. *Prerequisite:* 15.507 and twelve graduate credit hours of chemistry.

**15.751 Research Seminar in Toxicology (3)** Students deliver oral and written reports on various topics in contemporary toxicology, covering biological and chemical mechanisms of action of toxicants, testing methodology, and societal issues. Satisfies part of the requirements for the M.S. in Toxicology. May be repeated for credit, but not within the same term; topic must be different. Usually offered every spring. *Prerequisite:* 15.561, 15.670, and 15.671.

**15.797 Master's Thesis Research (1-6)**

**15.799 Doctoral Dissertation Research (1-20)**

## Communication

**Note:** The program track or tracks of each undergraduate professional course are noted in the course descriptions below: (BJ) Broadcast Journalism, (PJ) Print Journalism, (PC) Public Communication, (VM) Visual Media. Communication and Media Studies courses are identified by (MS). Communication and Media Studies courses approved for print and broadcast journalism majors are identified by (JMS).

### Undergraduate Courses

**17.105 Visual Literacy / A 1:1 (3)** Introduces students to ways of understanding visual images in a variety of contexts: art, media (including film, photography, television, graphic design), and drawing. Students learn about aesthetics as well as the production aspects of visual images; they discover intuitive dimensions of seeing as well as the major influence of culture on visual symbols and constructs. Usually offered every term. *Note:* not open to students who have taken 17.202 Visual Literacy.

**17.110 National Forensics Institute Academic Advantage (1-2)** A summer residential program in speech or debate for high school students. In addition to their work in the forensics institute, students undertake an additional, individualized course of study designed and supervised by institute faculty and coaches. In speech, students may pursue original oratory, Lincoln-Douglas debate, extemporaneous speaking, dramatic interpretation, humorous interpretation, and student congress. In debate, students prepare for the following academic year's national high school debate resolution. Usually offered every summer. *Prerequisite:* limited to students in the National Forensics Institute; permission of director of Summer Sessions required.

**17.200 Writing for Mass Communication (3)** (BJ, PJ, PC, VM) A course stressing basic writing techniques for informing a mass audience. Intensive practice in writing for mass media. Required of all school majors. Usually offered every term. *Prerequisite:* 23.100, 23.101 or equivalent courses, typing skill, and permission of the school.

**17.204 Public Relations (3)** (PC) The nature and practice of public relations in organizations. Employee relations, media relations, community relations, and relations with other publics. Usually offered every term. *Prerequisite:*

permission of the school. *Note:* not open to students who have taken 17.436 Public Relations.

**17.205 Understanding Mass Media / S 4:2 (3)** Building on students' individual and collective experiences of mass media (print, film, radio, and television), this course analyzes American media institutions: their development, fundamental purpose, and structure; the economic and political controls they face; and their effect on us as individuals. Usually offered every term. *Prerequisite:* for General Education credit: 53.110 or 57.105 or 65.100. *Note:* not open to students who have taken 17.100 Introduction to Mass Media.

**17.210 Presentational Speaking (3)** Analysis, organization, and delivery of effective speeches. Strategies of audience analysis, researching topics, overcoming stage fright, managing visual aids, refining persuasive message development, mastering nonverbal communication, with videotaped feedback for a variety of speeches. Usually offered every spring. *Prerequisite:* open only to University Honors students; permission of University Honors Director required. *Note:* not open to students who have taken 17.310 Public Speaking.

**17.270 How the News Media Shape History / S 2:2 (3)** The impact that the print and broadcast news media have had on America. The role and value of a free press, always powerful and usually responsible. Topics range from how radical writers helped start the American Revolution to how today's reporters influence contemporary political events. Usually offered every term. *Prerequisite:* for General Education credit: 29.100 or 53.105.

**17.280 Contemporary Media in a Global Society 3:2 (3)** An exploration of the relationship between international communication and foreign policy, with an emphasis on the traditions, practices, legal aspects, government controls, and attitudes in various countries and their impact on freedom of thought and expression. Usually offered every term. *Prerequisite:* for General Education credit: 33.105 or 53.130.

**17.310 Public Speaking (3)** (PC) Principles of effective speaking. Practice in preparing and presenting several types of public address. Usually offered every term. *Prerequisite:* permission of the school.

**17.320 Reporting (3)** (BJ, PJ) Fundamentals of news gathering, news writing, and news judgment for all media; study of news sources, fieldwork, research, and interview techniques. Usually offered every term. *Prerequisite:* 17.200, 17.205 and sophomore standing.

**17.322 Editorial Policies and Methods (3)** (PJ) Instruction and practice in editing. Copy editing, wire editing, and editorial judgment, headline writing, and newspaper design and layout. Usually offered every term. *Prerequisite:* core courses.

**17.325 Feature Article Writing (3)** (PJ) Study of feature articles for newspapers, syndicates, magazines, and specialized publications; practice in research, interviewing, and writing, marketing and publication of articles. Usually offered every term. *Prerequisite:* core courses and 17.320 or permission of instructor.

**17.333 Fundamentals of TV and VTR (3) (BJ)** Procedures and techniques used in producing television news in the field and in the studio. Students are introduced to basics of lighting, audio techniques, video graphics, camera operations, field production, and videotape editing. Laboratory. Usually offered every term. *Prerequisite:* core courses.

**17.346 Audio-Visual Communication (3) (PC)** Communicating through modern audio-visual media. Emphasis on understanding the media as well as the message. Students prepare materials and gain experience with audio-visual devices and systems. Usually offered every term. *Prerequisite:* core courses.

**17.385 Broadcast Journalism I (3) (BJ)** Writing, reporting, and editing news for radio. Production of minkdocumentary. Laboratory. Usually offered every term. *Prerequisite:* 17.320.

**17.390 Independent Reading Course in Communication (1-8)**

**17.392 Cooperative Education Field Experience (3)** See description under Cooperative Education in this publication.

**17.401 Legal Aspects of Communication (3) (MS)** Current legal problems. Theory of controls in journalism, visual communication, television, and radio. Libel suits, copyrights, and infringement. No previous knowledge of law required. Usually offered every term. *Prerequisite:* core courses.

**17.410 Interpersonal Communication (3)** Principles of interpersonal communication: communication models and systems; the role of perception in communication; verbal and nonverbal message elements; and communication barriers, breakdowns, and methods of improvement. Classroom exercises in interviewing techniques, small-group problem solving, and public speaking. Usually offered every term. *Prerequisite:* core courses. *Note:* not open to students who have taken 17.201 Introduction to Interpersonal Communication.

**17.425 Advanced Reporting (3) (PJ)** Students are introduced to the various reporting techniques involved in writing about local and federal governmental operations. Students write local and federal government news stories. Usually offered every term. *Prerequisite:* 17.320.

**17.428 Broadcast Journalism II (3) (BJ)** Writing, reporting, editing, and producing news for television. Production of television field reports and newscasts on closed circuit television. Laboratory. Usually offered every term. *Prerequisite:* 17.333 and 17.385; must be taken concurrently with 17.432.

**17.430 Basic Photography (3) (VM, PJ, PC)** Introductory technical and aesthetic principles of photography. Basic principles of the camera and black and white laboratory work. Meets with 17.630. Usually offered every term. *Prerequisite:* junior standing and 17.105 or permission of the school.

**17.431 Basic Visual Media Production (3) (VM)** Fundamental technical and aesthetic considerations involved in visual media production. Through projects in audiotape, 35mm slides, and small format video that are critiqued in class, students learn the principles and procedures of

sound recording and editing, cinematography, editing visual images, and preproduction planning. Meets with 17.631. Usually offered every term. *Prerequisite:* junior standing and 17.105 or permission of the school.

**17.432 Television Field Reporting (3) (BJ)** Advanced television news production. Students write, tape, edit, and produce field reports and a television minkdocumentary. Usually offered every term. *Prerequisite:* 17.333 and 17.385; must be taken concurrently with 17.428.

**17.433 Broadcast Delivery (3) (BJ)** Concentrated analysis of and training in the delivery of news on radio and television. All facets of broadcast news styles and performance are examined and developed. Obstacles to effective communication of news by the voice are identified, and remedies are attempted. Meets with 17.833. Usually offered every spring. *Prerequisite:* permission of the school.

**17.434 Location Film and Video Production (3) (VM)** Teaches 16mm silent and small-format video location production. Emphasis is on planning, treatment and shot scripting, development of scene and character, location lighting, refinements of continuity, location sound recording, and visual design. Usually offered every term. *Prerequisite:* 17.430 and 17.431.

**17.435 Introduction to Studio Television (3) (VM)** A hands-on laboratory course to teach basic studio operation and production skills, including directing, lighting, crewing, engineering, and production planning. Students are required to work on a variety of studio formats. Usually offered every term. *Prerequisite:* 17.105 or permission of school.

**17.437 Public Relations Media (3) (PC)** Principles and practice in the major forms of media used in public relations: news releases, broadcast publicity and public service announcements, planning and publicity for special events, feature stories, house publications, and institutional advertising. Usually offered every term. *Prerequisite:* core courses.

**17.442 Media Training (3) (PC)** Principles of effective presentation and written preparation for a variety of types of media appearances. Student exercises are videotaped and criticized in class for a television talk-show appearance, participation in a television issues forum, an individual television speech presentation, a television press interview, and a televised spokesperson news conference. Usually offered every term. *Prerequisite:* junior standing.

**17.446 Public Relations Case Studies (3) (PC)** Case studies and typical public relations problems in industry, labor, education, government, social welfare, and trade associations. Planning and preparation of communications materials for various media; application of public relations techniques. Usually offered every term. *Prerequisite:* 17.204.

**17.450, 17.451 Washington Journalism Semester Seminar I (4), II (4)** 17.450 and 17.451 are taken together, and explore journalism as it exists and is practiced in Washington, D.C. The seminar studies the people, institutions, and issues of Washington journalism with weekly guest speakers, field trips, readings, review sessions, and lectures. Usually offered every fall and spring. *Prerequisite:*



admission to Washington Journalism Semester. *Note:* not open to American University communication majors.

**17.452 Washington Journalism Semester Internship (4)** Professional communication work in an off-campus organization, providing the student with experience not available in the curriculum. Usually offered every fall and spring. *Prerequisite:* admission to Washington Journalism Semester. *Note:* not open to American University communication majors.

**17.456 Film Production and Direction (3)** (VM) Techniques of 16mm sound-film production: lighting, sound recording, cinematography, and post production. Meets with 17.656. Usually offered every term. *Prerequisite:* 17.434 and 17.482.

**17.464 Directing for Camera (3)** (VM) For students who wish to develop their skills in studio production. The course focuses on studio formats that employ talent, including spots, information tapes, and short dramatic pieces. Meets with 17.664. Usually offered every fall. *Prerequisite:* 17.434 and 17.482.

**17.470 Organizational Communication (3)** (PC) Communication practices in complex organizations. Formal and informal communication networks and problems associated with each. Forms of communication used in organizations. Field research project in a Washington-area organization. Offered irregularly. *Prerequisite:* permission of school.

**17.472 Nonverbal Communication (3)** (PC) Current research on the influence of biorhythms, artifacts, facial expressions, gestures, posture, space, time, and touch on human interaction. Opportunities for analysis and application of learned principles through in-class exercises, simulations, videotaped sessions, and off-campus field research. Usually offered every fall. *Prerequisite:* permission of school.

**17.475 Group Communication Management (3)** (PC) Current research on leadership, problem solving, decision making, deviant behavior, communication networks, and discussion techniques in small groups. Opportunities for application in videotaped sessions, role-playing exercises, and field research. Recommended in junior year. Usually offered every term. *Prerequisite:* permission of school.

**17.480 Public Communication Research (3)** (PC) Application of survey research methods to selected problems in public relations. Preparation of a research project for a Washington-area client. Usually offered every term. *Prerequisite:* senior standing and permission of school.

**17.482 Writing for Visual Media (3)** (VM) Techniques of writing scripts for film and television productions. Students write treatments and screenplays for television, proposals for public service announcements, commercials and scripts for nontheatrical film and video productions. Usually offered every term. *Prerequisite:* 17.200 and 17.431.

**17.486 Video Production and Direction (3)** (VM) An intermediate course in field video production. Topics include script, directing, production skills (camera, light, and sound), post-production, and technical developments. Students work independently and in groups. Meets with

17.686. Usually offered every term. *Prerequisite:* 17.434 and 17.482.

**17.487 Advanced Production and Direction (3)** (VM) An advanced course in field production. Students produce and direct projects of professional quality, drawing from the class as production crew. Critiques are structured as seminars. In addition, the course includes critical analysis of relevant films, videotapes, readings, and special events. Meets with 17.687. May be repeated for credit but not within the same term; topic must be different. Usually offered every term. *Prerequisite:* 17.456 or 17.464 or 17.486 or permission of instructor.

**17.490 Independent Study Project in Communication (1-6)**

**17.491 Senior Internship (3)** (BJ, PJ, PC, VM) Professional communication work in an off-campus organization appropriate to the student's school program, providing the student with experience not available in the curriculum. Usually offered every term. *Prerequisite:* senior standing, recommendation of adviser, and approval of the internship director; a grade point average of 2.50 is required in both the major and overall. Authorization of instructor and dean or department chair required.

## Graduate and Advanced Undergraduate Courses

**17.502 Investigative Journalism (3)** (MS) (JMS) Introduces students to the history, purposes, power, and responsibilities of investigative journalism. Also introduces students to the specialized reporting and interviewing techniques of investigative reporting and requires students to develop these skills while participating in a group investigative journalism project. Usually offered every spring. *Prerequisite:* 17.320.

**17.504 Journalism Ethics (3)** (MS) (JMS) This course is about values—society's and those of American journalism. A wide range of ethical issues affecting the news business are raised, but there are no definite answers to many of the questions raised in this course. The class discusses the best way of resolving them and looks ahead to future ethical issues on the horizon. Usually offered every fall. *Prerequisite:* junior standing and permission of the school.

**17.508 The Media and Government (3)** (MS) (JMS) The president and the press, other Washington press corps-official relations, the quality of government news reporting and its effect on policy, issues of government information policy, control of the media, and journalists' First Amendment rights. Usually offered every spring. *Prerequisite:* permission of instructor.

**17.509 Politics and the Media (3)** (MS) (JMS) The role of the mass media in the electoral process. Includes examination of candidates' use of the media to get elected and press and television reporting and analysis of political campaigns. Usually offered every fall. *Prerequisite:* permission of instructor.

**17.510 Women in Journalism (3)** (MS) (JMS) Examines women's historical and contemporary participation in print and broadcast journalism. Topics include pioneering woman journalists of the eighteenth, nineteenth, and twentieth centuries, African-American women journalists, newswomen of the battlefield, and depictions of women

journalists on film and television. Also covers contemporary issues facing women in journalism, and the portrayal of women on the news media. Usually offered every spring.

**17.511 History of Documentary Film (3) (MS) (JMS)** Development of the documentary tradition in film from 1900 to 1970. Critical analysis of its use in modern society. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered alternate falls. *Prerequisite:* permission of the school.

**17.512 Television Documentary (3) (MS) (JMS)** A study of the intersection of the documentary form in film and television. A brief overview of the history of the documentary film with a concentration on the manner in which it was shaped by the advent of television. A concentrated study of network documentary production in the 1950s and 60s, with an emphasis on the *cinéma vérité* movement, leading to a study of how film and television were affected by *cinéma vérité* in the 1970s and 80s. Concluding unit is on the video documentary. Usually offered alternate falls. *Prerequisite:* permission of the school.

**17.513 Producing Film and Video (3) (MS)** Nontheatrical film marketing and production management. Preliminary research and development of the film proposal; preparation of treatments, contracts, and budgets; cost analysis of production; and relationships between aesthetics and expenses. Use of Washington as a laboratory for marketing experience, including actual client contact. Usually offered every spring. *Prerequisite:* permission of the school.

**17.514 Censorship and Media (3) (MS) (JMS)** A survey of the history of censorship in the U.S. today in the newspapers, magazines, radio, movies, publishing, and television. International comparisons are drawn, and the problem of censorship in the schools is given special attention. Usually offered every fall. *Prerequisite:* permission of the school.

**17.515 Children's Television (3) (JMS)** Social effects of commercial and noncommercial television and video on children, with focus on methods to improve children's understanding of television. Individual and group projects. Usually offered every spring. *Prerequisite:* permission of the school.

**17.516 Special Topics in Visual Media and Culture (3) (MS) (JMS)** Rotating topics in the analysis of visual media and culture from a variety of perspectives, such as film and propaganda, film and ideology. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of the school.

**17.517 Cross-Cultural Cinema (3)** Cross-cultural analysis of film and video, drawing primarily on examples of feature production from Asia, Latin America, Africa, and the Middle East and focusing on the theme of cultural and ethnic identity. Film and video viewings, papers, lectures, and discussion. Usually offered every spring. *Prerequisite:* permission of school.

**17.518 Introduction to Computer Multimedia (3)** Students obtain a theoretical and practical understanding of the educational, professional, and artistic issues of a medium which blends writing, audio-visual media, telecommunications, and interactive computing. Usually offered every spring.

*Prerequisite:* permission of school; 55.535 is recommended.

**17.521 Opinion Writing (3) (PJ)** Supervised writing of editorials and opinion columns, to include reviews; analysis of editorials and other commentary; policies and practices of opinion writing in the mass media. Usually offered every spring. *Prerequisite:* permission of instructor.

**17.523 Intermediate Photography (3) (VM)** A refinement of photographic skills emphasizing a synthesis of craft and expression. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall (Photojournalism) and spring (Fine Arts Printing). *Prerequisite:* 17.430 or permission of instructor.

**17.525 Advanced Photography (3) (VM)** Extensive individual projects, critiques, and professional guest speakers. In-depth exploration of specific themes and techniques based on the goals of each student, and leading toward a professional-level portfolio. May be repeated for credit but not in the same term; topic may be the same. Usually offered every spring. *Prerequisite:* 17.523 or permission of instructor.

**17.527 History of Photography (3) (MS) (JMS)** The history of photography and its interrelationships with other visual arts and media. Emphasis is on modern photographers and on viewing work in Washington galleries and museums. Usually offered every fall. *Prerequisite:* permission of the school.

**17.529 Large-Format Photography and Studio Lighting (3) (VM)** A professional skills course which introduces the 4x5 view camera and studio electronic flash. Both sections are integrated and explore the unique characteristics of the equipment through extensive technical and shooting assignments. Usually offered every fall. May be repeated for credit but not within the same term; topic must be different. *Prerequisite:* 17.523 or permission of instructor.

**17.530 Broadcast Operations and Management (3) (MS)** The technical and historical development of American broadcasting, the managerial problems that affect operations of a broadcasting station, and the functional structure of American broadcasting. Usually offered every spring. *Prerequisite:* permission of the school.

**17.532 Publication Layout and Design (3) (PC)** Layout, typography, design, and printing in planning and producing newspapers, magazines, books, brochures, and folders. Usually offered every term. *Prerequisite:* permission of the school.

**17.535 Special Topics in News Media (3) (MS) (JMS)** Alternating topics in the analysis and working methods of specialized areas of the news media. *Prerequisite:* junior standing and permission of the school.

**17.538 Contemporary Media Issues (3) (MS) (JMS)** Examination of investigative reporting, the "new journalism" and other controversial developments affecting the news media. Assessment of how well the press informs the public. Usually offered every fall. *Prerequisite:* permission of the school.

**17.540 American Newspapers (3) (MS) (JMS)** Survey of contemporary newspapers. Critical analysis of their editing

rial and advertising content. Alternative newspapers. Usually offered every fall. *Prerequisite:* permission of the school.

**17.545 Business and Economic Journalism (3) (MS) (JMS)** Current economic and business issues and their coverage by the news media. The performance of the media in providing the necessary depth of business and economic reporting. How journalists can improve their knowledge and skill. Usually offered every spring. *Prerequisite:* permission of the school.

**17.546 Foreign Policy and the Press (3) (MS) (JMS)** The role of the American news media in the coverage of foreign policy issues. Philosophical issues include whether freedom of the press is adequately exercised in the foreign policy field and whether the national media sometimes serve as propagandists for the United States government. Students should be prepared to engage in adversarial debates over key issues. Usually offered every spring. *Prerequisite:* permission of instructor.

**17.558 History of Motion Pictures I (3) (MS)** Origins and development of the theatrical feature-length fiction film from the nineteenth century to 1940. International survey from an American viewpoint. Films are screened, discussed, and criticized. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered every fall. *Prerequisite:* permission of the school.

**17.559 History of Motion Pictures II (3) (MS)** History and development of the theatrical feature-length fiction film from 1940 to the present. International survey from an American point of view. Films are screened, discussed, and criticized. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered every spring. *Prerequisite:* permission of the school.

**17.561 Advanced Writing for Film (3) (VM)** Emphasizes theatrical film scriptwriting. Students are expected to write a feature-length screenplay during the course of the semester. Students also read and review professionally-written screenplays. May be repeated for credit but not within the same term; content/topic must be different. Usually offered every spring. *Prerequisite:* 17.482/682 or 23.402/702, and permission of instructor.

**17.562 Advanced Writing for Television (3) (VM)** A workshop that simulates the collaboration experience of a studio writing staff. Students learn to pitch and develop stories for on-going prime-time shows while polishing skills in story development and characterization. A portfolio-quality "spec" script is the end product. May be repeated for credit, but not within the same term; content/topic must be different. Usually offered every fall. *Prerequisite:* 17.482/682 or 23.402/702, and permission of instructor.

**17.570/571 Summer Film and Video Institute (1-3) A** set of permanent and rotating topics related to current practices and trends in the motion picture, video, and television professions. Offered on weekends and evenings during May and June, the Institute schedule allows students to select two or three courses in such areas as film and video production, direction, writing, design and management, post-production editing, and other related fields. Small classes and active participation are stressed. Some

special acceptance restrictions. Usually offered every summer. *Prerequisite:* permission of Summer Film and Video Institute director.

**17.584 Film Technology and Practice (6) (VM)** Introduction to concepts in visual communication through the use of still picture, Hi-8 video, and 16mm non-sync sound film in color. Through the study of camera technology, exposure, studio lighting, editing and sound recording, accompanied by analytical screenings and site visits to labs, with a series of sessions with supervising directors, and script consultations, the students edit work-print and magnetic sound on final films of relatively high quality. Offered only in Prague. Usually offered every fall. *Prerequisite:* 17.430 or equivalent. *Note:* may substitute for required courses 17.431 and 17.434 for undergraduate Visual Media majors.

**17.585 Directing (3) (VM)** Introduces students to the field of film directing through a series of seminars with the most important film directors in the Czechlands, followed by a question-answer session. Topics covered range from the roots of film as art, to casting, choosing a crew, directing for dramaturgical impact, large scenes and extras, the documentary and avant-garde, use of sound and counterpoint, directing the short film and problems of inspiration. Offered only in Prague. Usually offered every fall.

**17.586 History of Czech Cinema (3) (VM)** This course introduces the student to some of the most important films and filmmakers in the Czechlands. Through viewing and lectures by the filmmakers, the student will cover the areas of film history most notable to the development of film language in Bohemia: the influences of realism and neorealism, the Czech New Wave, the aftermath of the Czech New Wave, the avant-garde, the animated film, the FAMU Film School Phenomenon and the short film. Offered only in Prague. Usually offered every fall.

**17.587 Screenwriting (3) (VM)** This course is structured as a writing workshop where the students are given assignments to write scenes and scripts for short films, to analyze films and scenes to learn the basis of dramatic principles, story patterns and genres. Final project is a script for a short film. Offered only in Prague. Usually offered every fall. *Note:* may substitute for required course 17.482 for undergraduate Visual Media majors.

**17.590 Independent Reading Course in Communication (1-6)**

**17.599 New Communication Technology (3) (MS) (JMS)** The latest developments in, and the social and legal issues of, communication technology, including text-editing computer systems, word processors, cable, satellites, videotext, and teleconferencing. Usually offered every spring. *Prerequisite:* permission of the school.

## Graduate Courses

**Note:** In courses for which there are both a .400 and .600 level, additional work is required of students at the .600 level.

**17.601 Legal Aspects of Communication (3)** Current legal problems. Theory of controls in journalism, visual communication, television, and radio. Libel suits, copyrights, and infringement. No previous knowledge of law

required. Usually offered every fall. *Prerequisite:* permission of school.

**17.617 Direct Media (3)** Examination of the theory and practice of communication presentation through direct media, especially, but not exclusively, mail and telephone, to achieve political, fundraising, marketing, and social change objectives. Usually offered every summer. *Prerequisite:* permission of instructor, B.A. or B.S. degree.

**17.621 Advanced Copy Editing (3)** Students edit news and feature stories. Emphasis is on the dynamics of stories and the refinement of stories for publication. Usually offered every fall. *Prerequisite:* admission to the graduate program in print journalism.

**17.624 Principles and Practice of Journalism (3)** An intensive introduction to news reporting and news writing. Includes extensive field work reporting on local government and federal government. Designed to prepare non-journalists for the full-time graduate program in journalism and public affairs. Usually offered every summer. *Prerequisite:* permission of instructor and admission to graduate program in journalism and public affairs.

**17.630 Basic Photography (3)** Introductory technical and aesthetic principles of photography. Basic principles of the camera and black and white laboratory work. Meets with 17.430. Usually offered every term. *Prerequisite:* permission of program director.

**17.631 Basic Visual Media Production (3)** Fundamental technical and aesthetic considerations involved in visual media production. Through projects in audiotape, 35mm slides, and small format video that are critiqued in class, students learn the principles and procedures of sound recording and editing, cinematography, editing visual images, and preproduction planning. Meets with 17.431. Usually offered every term. *Prerequisite:* permission of the program director.

**17.632 Television Field Reporting (3)** Instruction in production of television news packages. Merging of script, videotape, and graphics into the final product. Supervision of shooting and editing. Usually offered every term. *Prerequisite:* permission of the graduate program director.

**17.633 Broadcast Delivery (3)** The effective delivery of news on radio and television. Examination and analysis of individual student problems with extensive practice sessions to solve them. Meets with 17.433. Usually offered every spring. *Prerequisite:* permission of the graduate program director.

**17.634 Location Film and Video Production (3)** Teaches 16mm silent and small-format video location production. Emphasis is on planning, treatment and shot scripting, development of scene and character, location lighting, refinements of continuity, location sound recording, and visual design. Students with prior experience may emphasize either film or video. Usually offered every term. *Prerequisite:* permission of the program director.

**17.635 Introduction to Studio Television (3)** A hands-on laboratory course to teach basic studio operation and production skills, including directing, lighting, crewing, engineering, and production planning. Students are required to work on a variety of studio formats. Usually

offered every term. *Prerequisite:* permission of the program director.

**17.636 Washington Reporting (3)** Field coverage of people, organizations, and events in the Washington area concerned with domestic or international affairs. In-depth story development, feature writing, and editing. Usually offered every spring and summer. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

**17.640 Public Communication Principles (3)** Formal and informal models used to define, formulate, and design the tasks involved in the creative and management activities of the public communication practice; ethics; public, social, and mass models of communication. Usually offered every fall. *Prerequisite:* permission of the director of the public communication program.

**17.642 Public Communication Management (3)** The principles and functions of public communication administration and the application of project-centered techniques. Strategies and implementation of tactics in a campaign setting; principles of planning, organizing, staffing, leading, and controlling; issues management. Usually offered every spring. *Prerequisite:* permission of the director of the public communication program.

**17.644 Public Communication Writing (3)** Analysis of writing models in a variety of styles and media. Exploration of the relationship between audience expectations and communication style and content. Practical experience in the preparation of press releases, brochure copy, and newspaper and magazine articles. Usually offered every fall. *Prerequisite:* permission of the director of the public communication program.

**17.646 Public Communication Production (3)** Advanced writing, programming, and production, involving various forms of contemporary media including commercial and in-house radio and direct mail, as well as newspapers, newsletters, and magazines. Usually offered every spring. *Prerequisite:* permission of the director of the public communication program.

**17.649 International Public Relations (3)** The forces of globalization have created a necessity and opportunity for international PR programs. Given the newness of truly international programs, prospective practitioners must gain expertise in cultural sensitivity, knowledge of business cultures, and realistic expectations. The course covers global firms, local agencies, case studies, and PR practices around the world. Offered irregularly.

**17.656 Film Production and Direction (3)** Techniques of 16mm sound-film production: lighting, sound recording, cinematography, and post production. Meets with 17.456. Usually offered every term. *Prerequisite:* 17.634, 17.635, and permission of graduate program director.

**17.664 Directing for Camera (3)** For students who wish to develop their skills in studio production. The course focuses on studio formats that employ talent, including spots, information tapes, and short dramatic pieces. Meets with 17.464. Usually offered every fall. *Prerequisite:* 17.634 and 17.682.

**17.682 Writing for Visual Media (3)** Techniques of writing scripts for film and television productions. Students write and criticize assignments. No production is involved in this course. Usually offered every fall. *Prerequisite:* permission of graduate program director.

**17.686 Video Production and Direction (3)** An intermediate course in field video production. Topics include script, directing, production skills (camera, light, and sound), post-production, and technical developments. Students work independently and in groups. Meets with 17.486. Usually offered every term. *Prerequisite:* 17.634, 17.635, and 17.682.

**17.687 Advanced Production and Direction (3)** An advanced course in field production. Students produce and direct projects of professional quality, drawing from the class as production crew. Critiques are structured as seminars. In addition, the course includes critical analysis of relevant films, videotapes, readings, and special events. Meets with 17.487. May be repeated for credit but not within the same term; topic must be different. Usually offered every term. *Prerequisite:* 17.656 or 17.686 and permission of graduate program director.

**17.690 Independent Study Project in Communication (1-6)**

**17.691 Graduate Internship (3)** Professional communication work in an off-campus organization appropriate to the student's school sequence, which provides experience not available in the curriculum. Usually offered every spring and summer. *Prerequisite:* open to graduate students who have completed with distinction most or all of their sequence requirements. Recommendation of adviser and approval of internship director.

**17.692 Cooperative Education Field Experience (3-6)**  
See description under Cooperative Education in this publication.

**17.701 Graduate Seminar in Film Theory and Practice (3)** The seminar focuses on the development of film theory and criticism. The work of Arnheim, Eisenstein, Kracauer, Bazin, Mitry, and Metz are studied as primary sources. The relationship between theory and production is examined and applied to analysis of specific films. Usually offered every spring. *Prerequisite:* full-time registration in the graduate program in Film and Video.

**17.702 Master's Thesis Projects Seminar (1-6)** Independent work toward project in lieu of thesis for students in the graduate Film and Video program. Course involves regular critiques and discussion. Students usually enroll for two semesters, but may enroll for six credits in one semester with permission. Consult graduate program director for registration and participation requirements. May be repeated for credit within the same term; topic may be the same. Usually offered every term. *Prerequisite:* permission of faculty adviser and admission to the graduate program in Film and Video.

**17.710 Seminar in Public Affairs (3)** Current issues in the making of domestic, international, and economic public policy in Washington with emphasis on the role of the media. Includes a major in-depth reporting project. Usually offered every fall. *Prerequisite:* permission of faculty

adviser and admission to the graduate program in journalism and public affairs.

**17.715 Seminar in International Journalism (3)** Focuses on the institutions and issues that make Washington an international journalism capital. Topics include arms control, world peace initiatives, U.S. relations with the Third World, the role of television in foreign policy news coverage. Guests from the State Department, the diplomatic corps, the foreign press corps. Usually offered in the spring. *Prerequisite:* admission to School of Communication graduate programs.

**17.720 Seminar in Journalism (3)** Examines ethical and economic issues affecting the press and initiates studies to add to the literature of media criticism. Students become acquainted with team journalism and magazine writing through in-depth projects focusing on press issues. Usually offered every spring. *Prerequisite:* permission of faculty adviser and admission to graduate program in journalism and public affairs.

**17.721 Broadcast News I (3)** Problems, policies, and practices of the broadcast news media. Emphasis on radio news writing, production, editing, reporting, and broadcasting. Production of audio minidocumentaries. Usually offered every fall. *Prerequisite:* permission of faculty adviser and admission to graduate program in journalism and public affairs.

**17.722 Broadcast News II (3)** Guidance and training in television news, including producing, writing, and editing for TV newscasts; reporting in the field and production of news packages. Team-produced TV documentaries or domestic or international issues. Usually offered every spring. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

**17.724 Reporting of Public Affairs (3)** Advanced training in writing news as a Washington correspondent with emphasis on the coverage of domestic, international, and economic public policy issues. Conducted with 17.710. Usually offered every fall. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

**17.735 Communication Theory (3)** Communication as an interactive social process. Relevance of social-science theory to the practice of public communication. Implications of public communication operations for the public interest. Usually offered every fall. *Prerequisite:* permission of the director of the public communication program.

**17.738 Research Methods in Communication (3)** Survey of research in public communication, with particular attention paid to the methodologies employed. Emphasis on the understanding and appropriate selection of quantitative techniques. Usually offered every fall. *Prerequisite:* permission of the director of the public communication program.

**17.741 Communication Processes (3)** The general processes of communication as applied to public communication. Interorganizational theory, persuasion, issue identification and analysis, conflict-cooperation assess-

ment. Usually offered every spring. *Prerequisite:* permission of the director of the public communication program.

**17.744 Public Communication Seminar (3)** Analysis of issues relevant to public communication such as current trends in audience analysis, professional and ethical responsibilities, political trends, and media-government controversies. A variety of perspectives are presented. Usually offered every spring. *Prerequisite:* permission of the director of the public communication program.

**17.797 Master's Thesis Seminar (1-3)** May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

## Business Administration: MBA

**18.601/18.602 Leadership Practicum (.5)** This 4-module course consists of speeches by high-echelon officials from industry, government, and non-profit organizations. An appreciation of the difficulties and complexities of leading an organization in turbulent times. Assigned readings and short papers. Usually offered every term.

**18.605 Managerial Economics I: Business, Government, and the International Economy (2)** Macroeconomics: gross domestic product and its components. Determinants of consumption and savings. Monetary policy on interest rates, and fiscal policy on taxes and expenditures. Inflation and unemployment. Foreign exchange markets. Project analysis of the aggregate economy. Usually offered every term.

**18.606 Managerial Economics II: Economics of the Firm and Industry (2)** Microeconomics of the household and firm. Consumer demand and pricing. Incomes, prices and preferences. Firm behavior: variable and fixed costs, hiring labor and capital, and production levels. Firms in perfectly and imperfectly competitive markets. Pricing strategy. Project analysis of firms and industries. Analysis of data on costs, revenue and pricing of a specific form and business. Usually offered every term.

**18.607 Financial Accounting Concepts and Applications (2)** A survey of fundamental financial accounting principles focusing on the strengths and limitations of accounting information for external users. Topics include asset and equity valuation, income determination, basic transition analysis, financial accounting alternatives, primary financial statements and financial accounting issues related to multinational operations. Usually offered every term.

**18.608 Managerial Accounting Concepts and Applications (2)** A survey of fundamental managerial accounting concepts with emphasis on the utility of accounting information for management planning, control, and decision making. Major topics include cash flows, cost behavior patterns, basic cost accounting, cost-volume-profit analysis, budgeting, special decision applications, responsibility accounting and performance reporting.

**18.609 Organizational Behavior and Human Resource Management (3)** This course covers the current managerial issues involved with the behavior of individuals in organizations. To include such topics as: motivation; recruiting, selection and placement; leadership; performance appraisal; organizational structure; compensation;

organizational culture; diversity; equal opportunity; and change. Usually offered every term.

**18.610 Quantitative Methods I: Statistics in Managerial Decision Making (2)** The decision-aiding tools that can be applied by managers to gain insight into decision problems range from easy-to-visualize graphical displays of data to sophisticated statistical tests. In this course, students, using real-world data sets and microcomputer-based software, learn how to describe sets of measurements, construct probability distributions, estimate numerical descriptive measures, and build linear statistical models. Usually offered every term.

**18.611 Quantitative Methods II: Operations Research in Managerial Decision Making (2)** Operations research concerns itself with deciding how to best design and operate complex real-world systems. In this course, students, using actual OR applications in production, distribution, transportation, and inventory management, learn how to mathematically model decision problems, solve the models using state-of-the-art microcomputer software, analyze model output, and implement results.

**18.612 Marketing Management I: Market Analysis (1.5)** Introduction to the conceptual frameworks necessary to identify and analyze marketing opportunities and threats to marketing strategies for organizations operating in a global economy. The course focuses on assessing the impact that environmental variables (e.g., regulation, culture, consumer behavior, economic conditions, technology and competitors) have on marketing programs. Techniques used in marketing research, demand estimation and forecasting. Written cases using spreadsheet-based analysis. Usually offered every term. *Prerequisite:* 18.605, 18.606 and 18.610.

**18.613 Marketing Management II: Managing Marketing Programs (1.5)** Introduction to the marketing variables controlled by the organization, i.e., product characteristics, pricing, communication and promotion and channels of distribution and techniques for effective marketing decision making in a global economy. Implementation and control of the marketing program is discussed. Written cases using spreadsheet-based analysis. Usually offered every term. *Prerequisite:* 18.612.

**18.614 Financial Management I (1.5)** An overview of the objectives of financial management including the investment, financing and dividend decisions as practiced in the context of the corporate, legal, regulatory and international environments. Basic concepts including risk and return, time value of money, stock and bond valuation, capital budgeting, and financial statement analysis are presented. Attention is given to both financial theory and practical applications of financial models. Usually offered every term. *Prerequisite:* 18.608 and 18.610.

**18.615 Financial Management II (1.5)** This course continues the presentation of the objectives of financial management introduced in 18.614 Financial Management I. Included are cash, inventory and accounts receivable management, cost of capital, capital structure, and dividend policy. Current issues in finance, international trends and the regulation of securities and their markets. Usually offered every term. *Prerequisite:* 18.614.

**18.616 Management Information Systems I: Foundations (1.5)** Covers the theoretical and technological foundations of management information systems. Topics include decision making frameworks, types of information systems, information technologies, organizational impacts, computer applications in support of business decision making and systems development. Usually offered every term. *Prerequisite:* 18.608.

**18.617 Management Information Systems II: Practice (1.5)** Covers the management of information systems and information systems within domestic and multinational organizations. Topics include information systems needs assessment, systems evaluation, systems design, implementation and the strategic use of information technology. Usually offered every term. *Prerequisite:* 18.616.

**18.618 Manager in the International Economy (3)** The practices and principles involved in conducting the functional aspects of business in an international context; includes the study of the nature, scope, and trends of international business as well as the international monetary system, international agreements, and considerations resulting from the environmental differences between nations. Usually offered every term. *Prerequisite:* 18.605, 18.606 and 18.607.

**18.621 Quality Management (2)** The focus of this course is on the implementation of Total Quality Management (TQM) in manufacturing and service organizations. Students are exposed to the basic concepts of TQM, the technical concepts of statistical process control as well as data analysis for quality problem solving, and issues related to the implementation of TQM. *Prerequisite:* 18.609, 18.610 and 18.611.

**18.622 Business and Society (1.5)** The relationship between business and its stakeholders; business performance with respect to societal and ethical standards; management of issues important to stakeholders, including labor, government, and others.

**18.623 Legal Environment of Global Business (1.5)** An intensive introduction to the legal and ethical issues confronting the global business manager. Students are exposed to the legal system, legal processes, and several areas of substantive commercial law relevant to the business manager, with the goal of developing recognition of legal and ethical issues and their managerial implications. Examines product liability, the administrative legal process of regulation, antitrust, and the contract as the fundamental legal instrument of global commercial relations.

**18.624 Applied Strategic Management in a Global Environment I (1.5)** Focuses on developing and applying strategic management to successfully position organizations in a competitive global environment. Strategic management knowledge and skills are integrated with previous course experiences to hone effective strategic management decision making, analysis, and oral and written communication skills. Students work in small teams to analyze a real company's external environment and perform an internal corporate strategic management audit. Written and oral presentations of their findings are made to the entire management team. Usually offered every term. *Pre-*

*requisite:* Completion of 18.601–18.616; must be taken in student's last semester.

**18.625 Applied Strategic Management in a Global Environment II (1.5)** Additional strategic management concepts, tools, techniques and case applications. Student teams develop a comprehensive strategic management plan for a real company operating in a global competitive environment. This real-world project simulates the process used in business corporations and engages students to think creatively, to explore options, to build detailed action plans, to think through implementation concerns and to write an effective management report that could be presented to the management of a company. *Prerequisite:* 18.624.

**18.626 Field Practicum (3-4.5)** Teams of students representing different business functions work on a business problem for a client company. This project may span two or three modules in length. Students and the course instructor meet with the management of the company to define the business problem and the plan of action for the project. Following the completion of necessary research and data analyses, the team submits a written report and makes a presentation of their recommendations to the management of the company. *Prerequisite:* Completion of 18.601–18.618, Business Report Writing Workshop and Business Presentations Workshop.

**18.651 Database Management Systems in Business (3)** This course explores the range of tools and techniques available for the management of databases. They include data modeling, database design, end user database query, and the features inherent in a DBMS. A course-long project provides groups with the opportunity to apply techniques of database design with a microcomputer-based DBMS to the creation of a working information system. *Prerequisite:* 18.617.

**18.652 Strategic Management of Information Technology (1.5)** Managing information technology in support of business strategy including information systems planning, information systems for corporate competitive advantage and the assessment of strategic information technologies.

**18.653 Issues in Information Systems Management (1.5)** Managing the information systems function within business organizations including computer operations, development of computer-based business applications, and end-user computing. *Prerequisite:* 18.617.

**18.654 International Issues in Information Technology (1.5)** Information Technology (IT) is becoming the primary conduit by which business is globalizing. The course focuses on two levels of analysis: the firm level (transnational corporation use of IT, its management and use for competitiveness), the national level (e.g., country differences in IT, policy issues, legal issues). The class is conducted in a seminar format. Usually offered every term. *Prerequisite:* 18.617 and 18.618.

**18.655 Decision Support and Executive Support Systems (1.5)** Decision Support Systems (DSS) and Executive Support Systems (ESS) refer to the class of systems that support exchange of information, modeling information, and making decisions. The course includes topics on

decision-making, decision theory, a survey of DSS/ESS in organizations, and implementation issues. The student will design and build an ESS using an ESS package. *Prerequisite:* 18.617.

**18.656 Seminar in Business Management Information Systems (1.5)** Examines current issues and challenges in business use of information technology. The specific topic covered in this course varies in response to the rapidly changing nature of the information systems field. Critical reading and discussion of information systems literature and a research paper related to seminar topics are required. *Prerequisite:* 18.617.

**18.661 Entrepreneurship and New Venture Management (3)** Identifies entrepreneurship characteristics and success and failure factors. Explores entrepreneurship and new venture management elements essential to the development of a new venture plan and the initial launching of new ventures. Students develop a new venture idea/opportunity and complete a written business plan which could be presented to a venture capitalist, banker, or other party for funding consideration. Successful strategies for managing and harvesting the new venture are developed. *Prerequisite:* 18.609, 18.612 and 18.615.

**18.662 Managing Small and Growing Companies (1.5)** Introduces and develops sensitivity to the issues and problems of small business management and successfully managing growing companies. Explores the particular problems associated with rapidly growing entrepreneurial firms. Students work in small teams on a business counseling case under the auspices of the Small Business Institute at the American University and the Small Business Administration.

**18.663 Managing a Family Business (1.5)** Issues facing family enterprise are addressed. Family business concerns are a unique subset of entrepreneurial, small, and growing businesses. Family business issues, family business systems, family members as employees, boundaries and succession issues are dealt with. Cases and empirical studies of family businesses engage students in family business experiences. Usually offered every term.

**18.664 Entrepreneurial Leadership and Organization Productivity (1.5)** Develops leadership perspectives, skills necessary for successful future managers and entrepreneurs. This is an experiential course which engages students to go beyond an "administrative" mindset to identify, develop and put into action successful leadership to successfully guide new ventures, growing enterprises or larger organizations.

**18.665 Management and Entrepreneurship in Service Organizations (1.5)** The service sector of the economy is a large and rapidly expanding sector. This course focuses on management and entrepreneurship in a wide variety of service organizations. Also focuses on entrepreneurship in the development of new ventures as well as the application of entrepreneurship in existing larger service organizations.

**18.670 Research Methods in Finance (1.5)** A study of the theory and application of commonly used financial research methods such as regression analysis and event study methodology. Access and use of financial data bases

such as CRSP, COMPUSTAT, and Global Vantage. This course should be taken early in the finance concentration. *Prerequisite:* 18.611 and 18.615.

**18.671 Seminar in Finance (1.5)** A capstone seminar dealing with current issues and developments in finance, including a review of the finance literature. Application of research methods to an empirical research project. *Prerequisite:* 18.670 plus four finance modules beyond 18.615 or permission of department chair.

**18.672 Working Capital Management (1.5)** An in-depth exposure to working capital management, including cash balances, bank compensation, lockboxes, cash concentration and disbursement design, forecasting cash flows, credit decisions, monitoring accounts receivable and payable and managing inventory balances. *Prerequisite:* 18.615.

**18.673 Long-Term Financial Strategies (1.5)** A comprehensive overview of the long-term investment and financing decisions including capital budgeting methodology, optimal replacement policy, techniques to minimize risk such as simulation and diversification, leasing and leverage. Students will undertake an intensive company analysis and present it to the class. *Prerequisite:* 18.615.

**18.674 Financial Statement Analysis: Information Usage (1.5)** A study of the uses and users of financial statement information. The role of the Financial Accounting Standards Board and the effects of its standards are examined. The uses of financial statement information as applied to decision models such as debt rating, distress analysis, and loan decisions are discussed. The impact of financial statement information is gauged by discussing capital market reactions to information disclosures. *Prerequisite:* 18.615.

**18.675 Financial Statement Analysis: Industry Analysis (1.5)** An in-depth study of financial statements, techniques of financial statement analysis and statistical properties of financial statement numbers. Cross-sectional and time series analyses of financial statement information are discussed. Class participants undertake a detailed analysis of firms in a particular industry to gauge their comparability on standardized performance measurements. *Prerequisite:* 18.615.

**18.676 Equity Analysis (1.5)** An examination of fundamental analysis of equity securities including valuation principles, risk and return and their measurements. The three-step valuation process of aggregate market analysis, industry analysis, and company analysis is described. Related issues such as technical analysis and efficient market hypotheses are discussed. *Prerequisite:* 18.615.

**18.677 Fixed Income Analysis (1.5)** A study of the valuation of bonds, convertible securities and options. The term structure of interest rates and issuer-specific characteristics affecting bond valuation are discussed. International dimensions of bonds and options are covered. *Prerequisite:* 18.615.

**18.678 Financial Futures and Other Derivative Instruments (1.5)** A comprehensive study of equity and debt-based futures with other derivative instruments given secondary consideration. Characteristics of exchanges



and market participants. Pricing of derivative instruments. Hedging, speculative, and arbitrage applications of derivative instruments are analyzed. *Prerequisite:* 18.615.

**18.679 Portfolio Theory and Asset Selection (1.5)** An introduction to the concepts of risk and return measurement in the context of diversification. Asset pricing models such as the Capital Asset Pricing Model and the Arbitrage Pricing Model are applied to develop optimal portfolios. The issue of market efficiency is presented in the context of these models. Statistical and computer applications are integral to the course. Extensive use is made of data on individual firms and market indices for both domestic and international assets. *Prerequisite:* 18.615.

**18.680 Portfolio Management and Hedging Strategies (1.5)** A study of portfolio performance measurement for various classes of assets. The principles of bond portfolio management are also covered, emphasizing interest rates and immunization. Derivative instruments are covered in the context of hedging strategies. Both intuition and formal models in each area are covered. Statistical and computer applications are integral to the material. *Prerequisite:* 18.615.

**18.681 Financial Management of Depository Institutions (1.5)** An analysis of the characteristics of banks, savings and loans, and credit unions. Choices of investments and sources of financing are examined, with methods of evaluating and managing credit and interest rate risk receiving emphasis. The roles and effects of regulatory agencies on banking institutions are studied. *Prerequisite:* 18.615.

**18.682 Financial Markets and Institutions (1.5)** A survey of financial markets and non-depository institutions. Characteristics of money and capital markets and major financial instruments traded on these markets are analyzed. Debt market instruments and the management of interest rate risk are emphasized. Financial institutions covered include insurance companies, pension funds, the U.S. Treasury, federal agencies, mutual funds, and finance companies. *Prerequisite:* 18.615.

**18.690 Independent Study Project (1-6)**

**18.692 Cooperative Education Field Experience (3-6)**

**18.700 International Finance (3)** Financial operation of the multinational firm, including the sources of funds, foreign investment decisions, and international transactions and taxation. Also included is a study of the related aspects of the international monetary system, foreign exchange markets, and international banking. *Prerequisite:* 18.615 and 18.618.

**18.701 International Banking (1.5)** This course is designed to familiarize the student with the environment and modus operandi of multinational banks, with the focus on policy- and concept-oriented issues in the arena of international banking. Topics include the structure of international banking, basic functions of international banks, offshore banking, foreign exchange management, risk management, off-balance sheet activities, the regulatory environment, country and political risk assessment, and international bank supervision. Each topic is addressed from both a theoretical and practical viewpoint. *Prerequisite:* 18.615 and 18.618.

**18.702 Legal Issues in International Investments and Trade (1.5)** This course offers the graduate business student an intensive introduction to the nature of international investment law, the private customary law of trade and both domestic and international schemes for the regulation of international trade. *Prerequisite:* 18.623.

**18.703 Culture and International Marketing (1.5)** The identification, analysis, and evaluation of international market opportunities are studied. The course considers the influence of cultural, economic, legal, and political differences, as well as different forms of international competition, on the practices of marketing and buyer behavior in other country markets. *Prerequisite:* 18.613 and 18.618.

**18.704 International Marketing Strategies (1.5)** The strategic approach to marketing products and services across national borders, including the modification of the elements of the marketing program to meet the different market needs, environmental constraints, and forms of competition in foreign markets. *Prerequisite:* 18.703.

**18.705 Export/Import Management (1.5)** The study of the practices and procedures of the export and import processes. The emphasis is on the study of international logistics, the role of the international trade intermediaries, and the development of the export marketing program, particularly for small companies. *Prerequisite:* 18.613 and 18.615.

**18.707 Managing Human Resources in Multinational Corporations (1.5)** This course examines the human resource implications associated with working in the international arena. Subject areas stressed include: the relationship of culture to human resource management, international human resource management strategy, selecting employees for international operations, performance appraisal and compensation. *Prerequisite:* 18.618.

**18.708 Issues in International Training and Labor Relations (1.5)** The course examines the human resource implications associated with working in the international arena. Subject areas stressed include: training and development, labor relations, instruction and productivity, security and safety, and termination and repatriation. *Prerequisite:* 18.618.

**18.709 Comparative Management Systems (3)** The study of business organizational structures and management procedures in different international environments and the applications of important foreign developments in management for U.S. business.

**18.710 Marketing Research Methods (1.5)** Study of marketing research techniques used to provide information for marketing decision making. Topics include research design, experimental methods, survey techniques, sampling, and attitude measurement. Students develop a research proposal and questionnaire for a corporate client. Guest speakers from marketing research firms. *Prerequisite:* 18.610 and 18.613.

**18.711 Strategic Marketing Analysis (1.5)** Review of methods and concepts used in the strategic planning process, including sales forecasting, assessment of market response, the effects of scale and experience on costs, the relationship between market share and profitability, the

development of portfolio models, and the product life cycle. Cases and empirical exercises. *Prerequisite:* 18.610 and 18.613.

**18.712 Marketing Planning and Execution (1.5)** Review of the strategic market planning process, industry analysis, market definition and selection, segmentation, positioning, competitor analysis, and strategy formulation and implementation. Cases and a simulation game. *Prerequisite:* 18.610 and 18.613.

**18.713 Marketing Research Applications (1.5)** Study of questionnaire development, data collection, data analysis, and report presentation. Students conduct a research study for a corporate client. Use of computers to analyze data and application of statistical techniques are emphasized. *Prerequisite:* 18.710.

**18.714 Buyer Behavior (1.5)** Analysis of the psychological foundations of consumer behavior and implications for marketing strategy. Topics include consumer perception, attention, comprehension, and memory; attitudes and attitude-behavior relationships; information integration and decision making; and behavior modification perspectives. *Prerequisite:* 18.613.

**18.715 Promotion Management (1.5)** Survey of promotion management activities, including sales promotion, personal selling, public relations, direct marketing, and institutional promotion. Promotional operations are examined individually and as a part of strategically coordinated promotional programs. Guest speakers from leading advertisers. *Prerequisite:* 18.613.

**18.716 Advertising Management (1.5)** Examination of the advertising methods and techniques. Topics include setting objectives, budgeting, copy strategy, copy execution and testing, media scheduling, and advertising effects models. Guest speakers from advertising agencies. *Prerequisite:* 18.613.

**18.717 Legal and Regulatory Issues in Marketing Management (1.5)** Seminar course that explores marketers' responses to the changing legal and regulatory environment. Topics include advertising and product safety regulations, trademark and antitrust law, and products liability cases. The course features prominent guest speakers from the FTC, FDA, consumer groups, and trade associations who debate current issues with the class. *Prerequisite:* 18.613 or permission of department chair.

**18.718 Social and Ethical Dimensions of Marketing Strategy (1.5)** Seminar course that examines the implications of social and ethical issues for developing marketing strategy. Topics include environmental issues, international marketing practices, ethical issues in targeting consumers, communicating with Congress and regulatory agencies, managing corporate image, and product recalls. Case studies and guest speakers from consulting firms, corporations, and government agencies. *Prerequisite:* 18.613 or permission of department chair.

**18.719 European Marketing Strategies (3)** Survey of issues affecting the strategic marketing of firms in the European market. Topics include environmental, legal and regulatory issues of the EC, trends in global industries, multinational strategic planning, and international brand management. A three-week study tour with visits to Euro-

pean corporations. Students have the opportunity to participate in seminar sessions with corporate executives. *Prerequisite:* 18.613 and 18.618.

**18.720 Research Methods in Real Estate (1.5)** A study of real world analysis of real estate data. This computer-intensive course includes both theory and application exercises. Topics include the use of spreadsheet, database, and statistical software packages; retrieving and using data from parcel files, census and commercial databases; and the use of statistical analysis techniques. This course should be taken early in the real estate concentration. *Prerequisite:* 18.610, 18.611 and 18.615.

**18.721 Real Estate Development (1.5)** An analysis of developing land applied to residential and commercial property. Acquisition and entitlements, and the planning and zoning phases. Land as an option. Structure of development organizations. Construction, miniperm, interim and takeout financing. Sales and marketing, and project management. *Prerequisite:* 18.615.

**18.722 Real Estate Asset Management (1.5)** A study of the analysis and structure of investing in income-producing properties. The efficiency of the real estate market and legal structures of organizations. Appraisal procedures, financing, and acquisition. Cash flow and financial statement analysis, and risk and return. Project analysis. *Prerequisite:* 18.615.

**18.723 Real Estate Market Analysis (1.5)** An examination of the techniques used in performing housing, retail and office feasibility studies and fiscal impact analyses. This is a computer-intensive course in which teams use spreadsheet models and secondary data sources to perform project specific demand and supply analysis for Fairfax County, Virginia and various disaggregated submarkets within the county. *Prerequisite:* 18.720.

**18.724 Real Estate Finance (1.5)** A study of the analysis of the debt and equity aspects of real estate finance. The debt side includes residential sector (origination and loan markets, and government agencies), single family markets, adjustable and fixed rate mortgage financing, and the commercial sector (participation loans, and the role of pension and insurance funds). Equity financing including real estate investment trusts, limited partnerships, S corporations, and securitization of debt and equity. *Prerequisite:* 18.615

**18.725 Geo-demographic Analysis (1.5)** An introduction to the use of geographic information systems (GIS) technology, GIS functionality, economic base theory, demography, and methodologies for forecasting employment, population, and households. This is a computer intensive course in which student teams utilize GIS software, demographic software, spreadsheet models, and secondary data sources to forecast employment, population, and households and map the results. *Prerequisite:* 18.720.

**18.726 Secondary Mortgage Markets (1.5)** An examination of mortgage backed securities, real estate mortgages investment conduits, and collateralized mortgage obligations. Securitization of assets and liabilities, and the roles of government sponsored enterprises are discussed. Tranche issues including income and principal only

securities, bonds and residual investments are examined. *Prerequisite:* 18.615.

**18.727 Urban Growth Simulation (1.5)** Using data from Fairfax County, Virginia and the Urban Growth Simulation Game, student teams develop the county from 1970 to 2010. Teams take the roles of citizens and elected officials responsible for establishing growth policies, and merchants or developers who start businesses, develop property, create REITs, or invest in a stock market. Teams deal with issues involving education, crime, pollution, waste management, quality of life, and the problems of urban growth. Students play against teams from other universities and from the "real world". Practitioners from the fields of urban growth management, land use planning, transportation planning, waste management or development address the class. *Prerequisite:* 18.720.

**18.730 Performance Management (3)** Review of theory and practice of designing performance appraisal systems. Focuses on task analysis, setting of objectives, selection of rating techniques, appeals procedures and use of the result of performance appraisal systems. Managing the introduction, use, and maintenance of performance appraisal systems. Introducing, tailoring, and integrating the performance appraisal system with other human resource management systems. *Prerequisite:* 18.609.

**18.731 Compensation Systems (1.5)** Analysis of concepts and practices of compensation administration in organizations. Wage and salary programs, methods of job evaluation, building wage and salary structures and the legal constraints on the wage and salary administrators and on compensation programs. *Prerequisite:* 18.609.

**18.732 Retirement Plan Management (1.5)** The course provides an intensive introduction to the business, regulatory and financial context of tax-qualified retirement plans, to include the Social Security system. Included also are an in-depth analysis of the fundamental features and investment strategies of group retirement plans as well as a general summary of their history and development. *Prerequisite:* 18.609.

**18.733 Employee Benefits Management (1.5)** The course covers the core programs of the typical employee benefits "package", with a special emphasis on health care, life and accident, and disability insurance coverages. Included in the course are summaries of health care cost containment techniques, self-funding strategies for insured plans, "managed care" health insurance alternatives and so-called "cafeteria" benefit programs. *Prerequisite:* 18.609.

**18.734 Human Resource Development (1.5)** The course surveys the conceptual foundations of the field of human resource development. The course covers current issues in the field and provides specific approaches and methodologies for the creation and operation of effective human resource development and training and programs. *Prerequisite:* 18.609.

**18.735 National and International Labor Policy (1.5)** Research into current problems, issues and developments in labor and human resource policies in the U.S. and abroad. An inquiry into questions of international competitiveness and international labor standards. Examination

of European Economic Community and North American Free Trade Agreement with regard to human resources. *Prerequisite:* 18.609.

**18.736 Recruiting and Selecting a Diverse Workforce (1.5)** An analysis of labor force demographics, study of the Civil Rights Act and other related legislation. The course focuses on providing equal employment opportunity in organizations, achieving equity in recruitment and selection, and improving sensitivity to diverse cultures. *Prerequisite:* 18.609.

**18.737 Employer and Employee Rights (1.5)** Examines the legal regulation of collective bargaining and workplace standards by analyzing statutes, judicial decisions, and administrative rulings that define the rights and govern the behavior of employers, and unions in contemporary society. *Prerequisite:* 18.609.

**18.738 Workforce Planning (1.5)** This course covers the current theories, techniques, and applications of human resource planning in the context of overall organizational strategy, including the principal topics of strategic planning, work design, workforce analysis, information systems, strategic requirements analysis, planning methodologies, implementation and action programming, feedback, control, and evaluation. *Prerequisite:* 18.609.

## Economics

### Undergraduate Courses

**19.100 Macroeconomics /S 4:1 (3)** An introduction to the basic principles of macroeconomics, stressing topics of national income, unemployment, inflation, economic growth, depression, prosperity, international economics, economic development, alternative approaches to economics, and current issues and controversies. Usually offered every term. *Note:* not open to students who have taken 19.101 Introduction to Economics I (Macro).

**19.110 The Global Majority /S 3:1 (3)** Introduction to the plight of less-developed countries, to alternative paths of development, and to the relationships between the more-developed and less-developed countries. The central theme of economic development is based on elementary economic theory. Equally important, human dimensions of development are emphasized through the use of novels and films from less-developed countries. Usually offered every term.

**19.200 Microeconomics /S 4:2 (3)** The basic principles of microeconomics and their applications; supply and demand, operation of markets, consumer and enterprise behavior, competition and monopoly, income distribution, discrimination, and alternative approaches to economics. Usually offered every term. *Prerequisite:* 19.100. *Note:* not open to students who have taken 19.102 Introduction to Economics II (Micro).

**19.300 Price Theory (3)** Theory of relative prices of commodities and productive services under perfect and imperfect competition. Theory of the firm and consumer demand. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

**19.301 Income Theory (3)** Concepts and theory of national income determination, employment, and economic growth. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

**19.302 Comparative Economic Systems (3)** Analysis and comparison of different economic institutions as they affect economic democracy, efficiency, and equity. Case studies of the differences between the French, British, German, Swedish, and Japanese economies, and an evaluation of the historical experience of the formerly "socialist" economies. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

**19.303 Sex Roles in Economic Life (3)** Analysis of the causes and effects of women's economic status. For economics students, an in-depth look at a particular application of labor economics; for women's studies students and majors in the other social sciences, the discipline of economics is brought to bear on their study of women's place in society. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

**19.304 Labor Economics (3)** The application of economic theory to current labor problems, domestic and foreign. Problems include wage theory and wage differentials, training policy, poverty, unemployment and underemployment, discrimination, productivity, industrialization, and union policies. Usually offered every fall. *Prerequisite:* 19.100, 19.200, and 19.300.

**19.305 Quantitative Economics (3)** Graphs, applications of calculus to economic problems and of linear algebra to input-output models, and introductory concepts of dynamic economic models. Usually offered every term. *Prerequisite:* 19.100, 19.200, and 41.211 or 41.221.

**19.306 Money and Banking (3)** The role of money and credit in the economy. The structure and operations of commercial banks. Federal Reserve System and processes and instruments of monetary policy. Nonbanking financial institutions and the structure of financial markets. Elements of monetary theory. "Flow of funds" and its use in monetary analysis. Usually offered every term. *Prerequisite:* 19.100.

**19.307 Political Economy of Economic Development (3)** Resource constraints on world growth. The colonial legacy. Market and nonmarket growth models. New strategies of development. Development problems and country emphasis vary with the semester. Usually offered every term. *Prerequisite:* 19.100.

**19.308 History of Economic Development (3)** Historical investigation of economic development using Europe and the Third World as case studies. Emphasis is on economic theory to illuminate historical development. Usually offered every fall. *Prerequisite:* 19.100 and 19.200.

**19.309 Public Economics (3)** The theory of taxation, public expenditure, and fiscal policy. Comparison of fiscal institutions in the United States and abroad. Government approaches to income redistribution and poverty: negative income tax, family allowances, etc. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

**19.310 Introduction to Econometrics (3)** Review of the theory of economic statistics and statistical techniques.

Emphasis on applying statistical models to economic data. Regression analysis and estimation of economic models. Topics include violations of the basic assumptions of the regression model, dummy variables, and analysis of variance. Index numbers and time series analysis. Usually offered every term. *Prerequisite:* 19.100, 19.200, and 42.202.

**19.311 International Economics /S (3)** Introduction to the economics of international trade and finance. Topics include why countries trade; commercial trade policies and their effects; balance of payments and the economics of foreign exchange markets; the operation and effects of fixed and flexible exchange rates. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

**19.312 Industrial Organization (3)** Historical and contemporary analysis of industrial market structures and of the behavior of business firms in the United States. Topics include the rise of large corporations, monopoly power and its effects on economic and social welfare, control over large corporations, and governmental regulation of business. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

**19.317 Political Economy (3)** Analysis of political economic theories including Veblen, institutionalists, neo-Ricardians, and modern Marxist and American radical dissenters from orthodox neoclassical economic theory, and application of those theories to problems, emphasizing the interdependence of political, economic, and social forces in contemporary societies. Offered irregularly. *Prerequisite:* 19.100.

**19.319 Economic Development of the United States (3)** The nature and sources of economic growth, the institutional transformation associated with economic development, and the social and economic consequences of economic change in the United States from the colonial times to the present. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

**19.320 History of Economic Ideas (3)** Exposition and analysis of development of economic theory. Emphasis on tracing evolution of economic theories out of specific historical contexts. Major figures and schools in economic thought from Adam Smith to the present. Attention given to the significance of having a separate body of thought called economics. Offered irregularly. *Prerequisite:* 19.100.

**19.322 Marxist Economics (3)** Marxist methodology. The labor theory of value, accumulation, and crises. Offered irregularly. *Prerequisite:* 19.100 and 19.200.

**19.325 Social Choice and Economic Justice (3)** Conservative, liberal, and radical normative theories. Conflicts between efficiency, equity, and liberty. Major contemporary writers on the "just economy." Institutional constraints, the role of the market, voting paradoxes, and the nature of social choice. Concepts of economic rationality. Economic justice and contemporary policy. Meets with 19.625. Usually offered every fall. *Prerequisite:* 19.200.

**19.340 Applied Research Methods in Economics (3)** Hands-on applications of a variety of practical methods in economic research, including the use of computers, to analyze economic data with the help of spreadsheets, programming languages, and econometric software. As-

signments allow students to study policy planning techniques in such fields as taxation, welfare reform, and management of the macroeconomy. Usually offered every spring. *Prerequisite:* 42.202 and either 19.100 or 19.200 or the equivalent. *Note:* not open to students who have taken 19.396 Selected Topics: Computer Methods in Economics.

**19.353 Economic Transformation of Central/Eastern Europe (3)** Introduces the student to the challenges of transforming from a command economy to the free-market system. Surveys the particular problems and dilemmas faced by individuals and society in the region of Central/Eastern Europe and offers a framework to judge the present successes/failures and to estimate the future. Offered only in Prague. Usually offered every fall.

**19.358 Economics of the World Regions (3)** Examines economic trends and economic policies in regions such as Africa, East Asia, or the Middle East. Focuses on distinctive economic institutions in the particular region, on the interdependencies within regions, and on the role of public policies in economic growth. Meets with 19.658. May be repeated for credit, but not within the same term: content/topic must be different. Offered irregularly. *Prerequisite:* 19.300 and 19.301 or permission of instructor.

**19.371 International Economics: Trade (3)** Theories of international trade and competitiveness; the effects of trade on the economies of importing and exporting countries; analysis of the effects of tariffs and quotas and other nontariff barriers. Other topics include multinational corporations; trade and development; customs, unions, and theory of the second best. Usually offered every fall. *Prerequisite:* 19.300.

**19.372 International Economics: Finance (3)** Determination of income, employment, and inflation in open economies. International impact of monetary-fiscal policies under fixed and flexible exchange rates. Theories of exchange-rate determination. International debt and recycling problems. International monetary organization and reform. Usually offered every spring. *Prerequisite:* 19.301

**19.375 Economics of Environmental Policy (3)** Develops the economic rationale for environmental policies and examines the impact of environmental factors in economic growth. Students learn about the role of markets in generating and solving environmental problems, the analysis of uncertainty and long-term environment impacts, and the use of taxes and regulation aimed at reducing pollution. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

**19.379 Economics of Energy, Resources, and Environment (3)** An introduction to the methods of establishing and evaluating current environmental policy, stressing the trade-off between resource extraction and development on the one hand and environmental quality on the other. Public policy is analyzed within the confines of economic growth, energy development, and environmental amenities. Designed for both majors and nonmajors. Usually offered every fall. *Prerequisite:* 19.300.

**19.381/19.382 The World Economy I (4)/The World Economy II (4)** The problem of U.S. competitiveness is examined in the context of an integrated world economic

system, starting with theories of the world economy: managed trade, free trade, and world systems theory. Regional issues—the third world; U.S. and the European Community; Japan and the U.S.; and market reforms in formerly planned economies—are studied in a policy context of GATT, EC92 and the future of the world economy. Offered only in Paris. Usually offered every spring. *Prerequisite:* 19.100 and 19.200, or equivalent.

### **19.390 Independent Reading Course in Economics (1-6)**

**19.391 Washington Economic Policy Semester Internship (4)** Experience in pursuing directed research with an organization directly involved in the field of economic policy. Usually offered every term. *Note:* students must also be enrolled in 19.393 and 19.394. *Prerequisite:* authorization of instructor and dean or department chair.

**19.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**19.393, 19.394 Washington Economic Policy Semester Seminar I (4), II (4)** Intensive examination of economic policy making in Washington. Encompasses theoretical analysis of economic problems, extensive readings, on-site discussions with economic policy decision makers, preparation of papers, and presentation of alternative paradigms used to understand economic policy. Usually offered every term. *Note:* 19.393 and 19.394 must be taken concurrently.

**19.398 Honors, Junior Year I (1-6)**

**19.399 Honors, Junior Year II (1-6)**

**19.480 Senior Research Seminar (3)** Provides senior year economics majors with experience in conducting their own research projects on important issues relevant to public policy. This course involves presentations about research approaches and topics, lectures by economists conducting policy research, a group project and an individual research project. This course involves close consultation between the faculty member and students on the choice of research project and how best to conduct the research. Students present their findings to the class at the end of the term. Usually offered every spring.

**19.490 Independent Study Project in Economics (1-6)**

**19.491 Internship (1-6)**

**19.498 Senior Honors I (3)**

**19.499 Senior Honors II (3)**

### **Graduate and Advanced Undergraduate Courses**

**19.500 Price Theory (3)** Theory of resource allocation and price system. Theory of demand, production, and distribution. Market structure and performance. Usually offered every term. *Prerequisite:* 19.505 (which may be taken concurrently) and 19.300 or 19.603, or permission of department.

**19.501 Income Theory (3)** Keynesian model of income determination. Consumption, investment, and interest rate theories. Keynesian and classical systems compared. Usually offered every term. *Prerequisite:* 19.505 (which

may be taken concurrently) and 19.301 or 19.603, or permission of department.

**19.504 Economic Thought (3)** Major figures in the history of economic thought, their social and economic thought and tools of analysis they created. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

**19.505 Quantitative Analysis of Economic Models (3)** Comparative static and comparative dynamic analysis of linear and nonlinear economic models. Usually offered every term. *Prerequisite:* 41.221 or equivalent.

**19.507 American Economic Development (3)** The pace and structure of economic growth, the institutional transformations involved in economic development, and the social and economic consequences of economic change in the United States since 1600. Focus is on a variety of causal models and methods for explaining economic and institutional change. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

**19.508 European Economic Development (3)** Origins and development of capitalism in the Western world, especially in Britain. Emphasis on economic theory to illuminate historical development. Usually offered every fall. *Prerequisite:* permission of department.

**19.511 Theory of Political Economy I (3)** An analysis of the methodology of political economy. Value theory, the labor process, alienation, accumulation, and reproduction. Usually offered every spring. *Prerequisite:* 19.521 (may be taken concurrently).

**19.512 Comparative Economic Systems (3)** A theoretical and historical evaluation of the effects of different economic institutions and their combinations on economic democracy, efficiency, and equity. Distinctive features of the French, British, German, Swedish, and Japanese economies, as well as the historical experience of the formerly "socialist" economies are emphasized. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

**19.521 Mathematical Economic Analysis (3)** Mathematical analysis of economic theory and problems. Constrained maxima and minima, linear and nonlinear programming, elementary differential and difference equations, and economic applications. Usually offered every fall. *Prerequisite:* 41.221 and 41.222 or equivalent.

**19.522 Econometrics (3)** Theory of economic statistics and development of statistical models to be applied to economic data. Statistical criteria, hypothesis testing, multiple regression analysis, violations of the basic assumptions of regression analysis, and analysis of variance. Computer applications. Usually offered every term. *Prerequisite:* 19.505 or 19.521, which may be taken concurrently.

**19.531 Financial Markets (3)** Institutional and theoretical aspects of creating, holding, and exchanging financial assets—money, credit instruments, and equities. The liabilities created by financial intermediaries and the role of government in financial markets. Usually offered every fall. *Prerequisite:* 19.500, which may be taken concurrently, or equivalent.

**19.532 Monetary Theory and Policy (3)** Relation of money and other financial assets to prices, output, and

interest rates. Emphasis on the demand and supply of money and on government monetary policy. Usually offered every spring. *Prerequisite:* 19.505 or 19.521, and 19.501.

**19.541 Public Economics I (3)** Rationale for the existence of the public sector. Theory of public goods and taxation. Usually offered every fall. *Prerequisite:* 19.500 and 19.501, or permission of instructor.

**19.542 Public Economics II (3)** Analysis of public expenditure, cost-benefit analysis, budgeting, and fiscal policy. Offered irregularly. *Prerequisite:* 19.541 or permission of department.

**19.546 Industrial Organization (3)** The structure of industrial markets and the behavior of business firms in the United States. Evaluation of welfare implications of current market structures, business behavior, and related government policies. Usually offered every third semester. *Prerequisite:* 19.500.

**19.551 Theory of International Trade and Multinational Corporations (3)** Theory of international specialization, world trade and development, commercial policy, balance of payments, and multinational corporations. Usually offered every fall. *Prerequisite:* 19.603 or 19.500.

**19.552 Economic Transition in Eastern Europe and New Independent States (3)** Economic policy in formerly centrally planned economies that are attempting to introduce a market system. Review of the record of economies of the former Soviet Bloc. Emphasis is on applied policy issues such as privatization, freeing prices, property rights, and macroeconomic stabilization. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

**19.555 Political Economy of Latin American Development: Theories versus Realities (3)** Overview of post-World War II Latin American economic development; import-substituting industrialization, the growth of the urban informal sector, recurrent balance of payments and fiscal crises, the debt crisis, stabilization and structural adjustment. Economic analysis of principal policy issues: comparative advantage and structure of production, employment generation, foreign capital inflow, privatization, public finance and regional free trade agreements. Usually offered every fall. *Prerequisite:* 19.301 or 19.603 or permission of department.

**19.564 Development Finance (3)** Alternative approaches and theories to understanding the role of finance in economic development and analysis of the interaction between the financial sector and the rest of the economy. Nature and structure of informal and formal credit markets. Comparative analysis of public versus private financial institutions. Usually offered every fall. *Prerequisite:* 19.500 and 19.501, both may be taken concurrently.

**19.571 Labor Economics: Theory (3)** Contemporary theories of wages, employment, and prices; collective bargaining; the effect of collective bargaining on wages in the American economy; theories and empirical studies of wage differentials. Usually offered every third semester. *Prerequisite:* 19.300 and 19.301, or 19.603.

**19.574 Women in the Economy (3)** A review of economic literature on the issues of sex roles in the workplace and

the family, and of related policy issues. The course prepares students to conduct their own economic research in the women's studies area. Topics covered include theories of the family and the workplace, the economics of the family, divorce, single parenthood, welfare reform, poverty among women. Usually offered every spring. *Prerequisite:* 19.603 (or 19.300 and 19.301) and 19.522 or equivalent courses.

**19.579 Energy Economics, Resources, and the Environment (3)** A systematic introduction to the policy issues associated with the changing role of energy and other resources in modern economics. Specifically, a microanalytic approach is used to evaluate complex policy problems associated with economic growth, energy development, and environmental externalities. For graduate students and advanced undergraduate economics majors. Usually offered every fall. *Prerequisite:* 19.500 or 19.603.

**19.590 Independent Reading Course in Economics (1-6)**

### Graduate Courses

**19.603 Introduction to Economic Theory (3)** The major analytical tools of price and income theory. No credit toward degrees in the Department of Economics. Usually offered every term. *Prerequisite:* 19.100.

**19.610 Cost Benefit and Planning (3)** In-depth coverage of social benefit/cost analysis of investment projects in LDCs with particular coverage of identification of national benefits and costs as well as alternative shadow pricing techniques. Hands-on analysis of several investment projects with use of PC-based computational aides. Usually offered every spring. *Prerequisite:* 19.551, 19.611 or 19.671 or permission of instructor. *Note:* not open to students who have taken 19.510.

**19.611 Survey of International Economics (3)** International trade theory and international monetary economics for graduate students in other departments. Emphasis on policy applications. Primarily for MA students not taking the comprehensive examination in International Economics. Usually offered every spring. *Prerequisite:* 19.300 and 19.301, or 19.603.

**19.625 Social Choice and Economic Justice (3)** Conservative, liberal, and radical normative theories. Conflicts between efficiency, equity, and liberty. Major contemporary writers on the "just economy." Institutional constraints, the role of the market, voting paradoxes, and the nature of social choice. Concepts of economic rationality. Economic justice and contemporary policy. Meets with 19.325. Usually offered every fall. *Prerequisite:* 19.500 or 19.703.

**19.632 Development Banking (3)** Public, private, and mixed development banks and their advantages and disadvantages. Relations of development banks to money and capital markets—competitiveness and compatibility with other financial institutions; sources of funds; use of funds; autonomous and syndicated operations; fund management and project supervision; loan repayment; and successive financing and development banking as instruments of promoting development. Usually offered every term. *Prerequisite:* 19.500 and 19.501. *Note:* not open to students who have taken 19.533 Development Banking.

**19.633 Development Project Cycle (3)** Examines the development project from inception to ex-post evaluation, focusing on specific cases. Required of all students in the Development Lending track of the M.A. in Development Banking. Usually offered every fall. *Prerequisite:* 19.610, 19.632, and 19.660 or 19.661.

**19.634 Negotiating Development Assistance (3)** Workshop in development-projects contract negotiation for non-lawyers. Designed around specific projects. Required as terminal course for completion of work in Development Lending track of M.A. in Development Banking. Usually offered every spring. *Prerequisite:* 19.632.

**19.635 International Capital Markets Workshop (3)** A practical study approach to borrowing in major world financial markets. Surveys the technical elements necessary for borrowers and investors to operate in the fixed income securities markets. Emphasis on creditworthiness analysis and rating of public and private borrowers, design of prospectus, registration, pricing, flotation and marketing of public bond issues. Covers some of the long term financing decision making tools and risk management mechanisms available to financial managers. Analysis of primary and secondary markets and transactions in specific international bond markets. Usually offered every fall. *Prerequisite:* 19.531, which may be taken concurrently; and 19.632 or permission of instructor.

**19.636 Foreign Assistance and Economic Development (6)** Analyzes the impact of foreign assistance on the development of less developed countries. Limited to students in the Development Studies program. Usually offered every spring and summer.

**19.658 Economics of the World Regions (3)** Examines economic trends and economic policies in regions such as Africa, East Asia, or the Middle East. Focuses on distinctive economic institutions in the particular region, on the interdependencies within regions, and on the role of public policies in economic growth. Meets with 19.358. May be repeated for credit, but not within the same term: content/topic must be different. Offered irregularly. *Prerequisite:* 19.300 and 19.301, or 19.603 or permission of instructor.

**19.660 Survey of Economic Development (3)** This course reviews alternative theories of economic development as well as alternative development strategies including *laissez faire*, planning, regulated market economy, import substitution, and export-oriented industrialization among others. Also addresses contemporary development issues facing LDCs such as agriculture, poverty, labor markets, income distribution, trade, women, environment and balance of payment considerations. Usually offered every term. *Prerequisite:* 19.500 and 19.501, one of which may be taken concurrently. *Note:* not open to students who have taken 19.560 Survey of Economic Development.

**19.661 Economic Development Policy (3)** Analysis of broad-based sustainable development. Brief review of theories and strategies of development. Analysis of critiques of stabilization, structural adjustment, sectoral adjustment and other open macroeconomic policies. Usually offered every term. *Prerequisite:* 19.603 or equivalent.

**19.663 Economic Development: Theory and Applications (3)** Application of economic theory to the context of developing countries. Analysis of markets for goods, foreign exchange and factors of production. Relation between market and shadow prices. Measures of protection and resource pull and quantification of comparative advantage and resource cost. Macroeconomics of less developed open economies: non-industrialization and import-substituting. Simple computable general equilibrium and neoclassical models. Usually offered every spring. *Prerequisite:* 19.660. *Note:* not open to students who have taken 19.563 Economic Development: Theory and Applications.

**19.671 International Economics: Trade (3)** Classical, neoclassical, and alternative theories of the gains from trade and the determination of the pattern of trade. Analysis of the welfare effects of trade policies. Modern theories of trade with increasing returns and imperfect competition; strategic trade policy. Primarily for MA and PhD students taking the comprehensive examination in international economics. Usually offered every fall. *Prerequisite:* 19.505 (or 19.521) and 19.500 (or 19.703). *Note:* not open to students who have taken 19.524 International Economics: Trade.

**19.672 International Economics: Finance (3)** International monetary economics and open-economy macroeconomics. Balance-of-payments adjustment, exchange-rate determination, capital mobility, and the international monetary system. Primarily for MA and PhD students taking the comprehensive examination in international economics. Usually offered every spring. *Prerequisite:* 19.505 (or 19.521) and 19.501 (or 19.702). *Note:* not open to students who have taken 19.525 International Economics: Finance.

**19.690 Independent Study Project in Economics (1-6)**

**19.691 Internship (1-6)**

**19.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**19.702 Macroeconomic Analysis I (3)** Analysis of determinants of aggregate demand and supply and their interactions in closed and open economies. Theoretical and empirical analysis of sectoral relations including consumption, investment, government, foreign sector, and demand and supply for money. Usually offered every spring. *Prerequisite:* 19.505 or 19.521, which may be taken concurrently. Concurrent enrollment in 19.721 recommended.

**19.703 Microeconomic Analysis (3)** Theories of demand, market structure and performance, production and distribution, cost and supply. Introduction to general equilibrium analysis. Usually offered every fall. *Prerequisite:* 19.521, which may be taken concurrently.

**19.711 Theory of Political Economy II (3)** An analysis of advanced topics in value theory, crises and depressions, the theory of money, international capital flows, and distribution. Usually offered every fall. *Prerequisite:* 19.511 or permission of instructor.

**19.712 Macroeconomic Analysis II (3)** Recent developments in macrotheory (monetarist to new classical school) and macrodynamics, including theory of growth and fluctuation and theory of income distribution. Usually offered every fall.

**19.713 Advanced Price Theory (3)** An advanced treatment of general equilibrium; capital theory; income distribution theory; welfare and public policy. Usually offered every spring. *Prerequisite:* 19.703, and 19.505 or 19.521. Concurrent enrollment in 19.721 recommended.

**19.721 Advanced Mathematical Economic Analysis (3)** Systems of difference and differential equations, dynamic optimization techniques such as calculus of variations and optimal control theory, and economic applications. Usually offered every spring. *Prerequisite:* 19.521.

**19.723 Econometric Methods (3)** Multivariate regression models and the variations on the standard model, including serial correlation, heteroskedasticity, multicollinearity, and stochastic regressors. Estimation and identification in simultaneous equation models is also covered. Selected topics as time permits. Usually offered every spring. *Prerequisite:* 42.502.

**19.724 Seminar in Econometrics (3)** Extension of econometric theory and applications, including maximum likelihood methods and asymptotic theory. Assessment of econometric models and their use. Usually offered every third term, following 19.723. *Prerequisite:* 42.502 and 19.723.

**19.774 Seminar in Economic Thought (3)** Special topics in the history of economic thought with emphasis on problems of methodology and philosophy. Usually offered every spring. *Prerequisite:* 19.504.

**19.778 Seminar in Economic History (3)** Selected topics and research in economic history, American and European. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* 19.507 or 19.508.

**19.781 Seminar in Political Economy (3)** Advanced analysis of selected topics in political economy. For doctoral students. Usually offered every spring. *Prerequisite:* 19.511 and 19.711 or permission of the department.

**19.784 Seminar in International Trade and Finance (3)** Advanced topics in international trade and finance. Seminar focuses on empirical research-oriented papers. Research paper is required. Usually offered every spring. *Prerequisite:* 19.671, 19.672 and 19.310 or 19.522 or 19.723.

**19.786 Seminar in Economic Development (3)** Research seminar involving an in-depth treatment of selected topics. Research paper required. Usually offered every fall. *Prerequisite:* 19.660 or 19.661.

**19.790 Seminar in Labor Economics (3)** Public policy toward labor unions; the economics of human capital; measurement and analysis of income distribution; poverty measurement and analysis; unemployment and manpower policy; selected topics in labor policy. Usually offered alternate springs. *Prerequisite:* 19.500 and 19.501.



**19.797 Independent Research: Master's Thesis Seminar (1-6)**

**19.798 Dissertation Proposal Seminar (3)** Identification and development of research topics, with the aim of completion of a dissertation proposal. Usually offered every term. *Prerequisite:* Third year in Ph.D. program or permission of instructor.

**19.799 Independent Research: Doctoral Dissertation Seminar (1-24)**

## Education

### Undergraduate Courses

**21.200 Schools and Society /S 4:2 (3)** A multidimensional view of schools, teachers, and students. This social and intellectual foundation serves as a basis for studying contemporary education and the issues of racism, sexism, finance, governance, innovations, and the social context of American education. Lectures, discussion groups, and independent projects. Usually offered every term. *Prerequisite for General Education credit:* 65.100 or 54.105. *Note:* Not open to students who have taken 21.300 Foundations of Education.

**21.203 Career Education: You and Your Future (2)** The choice of a major and the career to pursue are important decisions a student can and should control. In this course, students learn research and interviewing skills and apply them to selection of a major and exploration of potential career fields. Usually offered every term.

**21.205 Education for International Development /S 3:2 (3)** The conserving role of education as a socializing agent and the liberating role of education as an engine of change. Special attention is given to the social and economic impact of education in national development, especially in the Third World. Usually offered every spring. *Prerequisite for General Education credit:* 03.110 or 19.110 or 33.110. *Note:* Not open to students who have taken 21.578 Comparative and International Education.

**21.212 Methodology of Sign Language /A (3)** The principles of manual communication and some principles of American Sign Language (ASL) are introduced. Learning signs and gaining expressive and receptive skills are stressed. Usually offered every spring and fall.

**21.240 Documentation and Analysis of Field Experience (3)** A review of contemporary theories and research in adult development and learning that provides students with the context to identify, analyze, and synthesize prior experiential learning. Final product is a portfolio that documents such learning. A required course limited to APEL students. Usually offered every term.

**21.250 Mathematics for Elementary School Teachers (3)** Basic mathematical concepts are considered, providing an understanding of the structure of elementary school mathematics. Tutorial experiences encouraged. Usually offered every term. *Prerequisite:* second-semester freshman standing.

**21.319 Children's Literature: Multicultural and International Approaches (3)** Analysis of various genres of children's literature and of the way contemporary issues are reflected in children's books from preschool through adolescence. Topics include the portrayal of minority groups, women, the elderly, those from different cultures, changing family lifestyles, death and dying, and the international concerns of war and peace. Meets with 21.619. Usually offered every spring.

**21.320 Psychology of Education (3)** Psychological and sociological concepts of learning taught through the study of the child from prenatal through adolescence. Topics include but are not limited to pupil evaluation, parental involvement, development of cognitive skills, management and motivation of students, self-concept, and individual differences. Usually offered every term.

**21.321 Field Experience: Observation and Analysis (1)** Observation and analysis of diverse school settings, examining philosophies, curriculum, and teacher and administrator roles, using informal and formal means of data collection with particular emphasis on classroom interactions. Usually offered every fall and spring.

**21.325 Global Education (3)** The role of American education in an interdependent world, the multicultural character of American classrooms, and the international dimensions of the American school curriculum. The course explores such issues as ethnocentrism, empathy, and global awareness, including an analysis of educational materials and methods useful in treating these issues. A special emphasis is placed on developing skills for cross-cultural understanding and communication. Usually offered every spring.

**21.330 Speech and Generic Teaching Methods (3)** Introduction to research on equity and effectiveness in teaching. Emphasis on development of instructional objectives and speech and presentation skills. General teaching methods: questioning, classroom management, evaluation, and academic learning time. Students demonstrate teaching skills in clinical settings. Usually offered every fall. *Prerequisite:* 21.200, 21.320, and 21.321.

**21.362 Classroom Management (3)** Preservice teachers learn about the instructional and behavioral components of classroom management. Students gain skills in assessing behavior problems, planning interventions, implementing various strategies, and evaluating the effectiveness of interventions. Special attention is given to diverse populations of students, for example, those with exceptional needs, those from different cultural backgrounds, those who use English as a second language, and those from low socio-economic backgrounds. Usually offered every fall.

**21.371 Foundations of Reading Instruction (3)** How to teach reading to children. Students learn how to evaluate children's unique strengths and weaknesses and take advantage of this information in planning reading programs for children. Usually offered every spring. *Prerequisite:* 21.200, 21.320, and 21.321.

**21.389 Sexism in School and Society: National and International Perspectives /S (3)** Topics include textbooks, school counseling, sex-segregated schools, school

personnel behavior, classroom interaction, curricular bias, adult communication differences, sexual harassment, vocational education, physical education and athletics, and international developments concerning sex equity. Examination of recent attempts to develop sex-fair textbooks, and legal actions such as Title IX of the 1972 Education amendments, and case studies. Meets with 21.689. Usually offered every spring.

**21.390 Independent Reading Course in Education (1-6)**

**21.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education Field Experience.

**21.402 Methods of Teaching Children with Learning Disabilities (3)** An introduction to special education with emphasis on learning disabilities. Attention to perceptual and cognitive development of children, adolescents, and adults with learning disabilities. Emphasis on teaching through children's strengths and interests, meeting their special needs, and techniques of management of behavior. Usually offered every spring.

**21.490 Independent Study Project in Education (1-6)**

**21.491 Internship in Education (6-9)** Students participate in the professional activities of selected educational organizations or agencies in the Washington, D.C. area. Students gain experience in nonteaching occupations that are integrally related to education and gain skills in educational research and curriculum or program development and dissemination. *Prerequisite:* permission of the director of the internship program and of the dean.

**Graduate and Advanced Undergraduate Courses**

**21.501 Language Arts and Social Studies Curricula in Special Education (3)** The relation between teachers and their curricula and learners and their needs. First semester concentrates on language arts and social studies including teaching of reading as a crucial educational responsibility, reading in relation to principles of learning and child development, materials and techniques for specific learning outcomes, the role of language in the child's life, and interrelationships between various phases of language arts. Practicum experience includes teaching under videotape supervision. Offered irregularly.

**21.502 Methods of Managing Pupils with Behavior Disorders (3)** Psychoeducational methods of understanding and managing inappropriate classroom behavior. Techniques such as groups, problem solving, role playing, and videotape analysis of behavior. Usually offered every fall and summer.

**21.503 Theories and Practices in Special Education (3)** Theories and methods of reeducating emotionally disturbed children, such as psychodynamic, behavioral, psychoeducational, educational, and ecological models. Case conferences, guest lectures, group discussions, and videotape analysis. Usually offered every spring. *Prerequisite:* 21.502.

**21.519 Computers in Education (3)** An introduction to computer literacy, with emphasis on the role of the computer in the elementary school. Students learn methods and criteria for the evaluation of educational software,

programming in BASIC and LOGO, as well as skills in teaching effectively with computers. Additional topics include the history of computers, educational applications of computers, and the impact of computers on education. Usually offered every fall.

**21.520 Reading, Writing, and Literature across the Curriculum (3)** Strategies and approaches appropriate for implementing reading and writing assignments for any content area are presented and practiced. Literature relative to each content area is explored and connected to learnings. Reading assignments, practical course competencies, and opportunities to integrate the three areas are included. Usually offered every spring.

**21.521 Foundations of Education (3)** An overview of the historical, philosophical, political, and social foundations of American education. Contemporary topics in American education are addressed, including curriculum reform, the reform reports, school governance, school law, and school finance. Usually offered every summer.

**21.522 Principles of Effective Methods and Instruction (3)** An in-depth examination of the methods and competencies necessary for teaching, including instructional planning, writing objectives, lesson presentation, questioning, interpersonal communication, classroom management, lecturing, and evaluation. Field advancement in school setting. Students provide their own transportation. Usually offered every spring.

**21.525 Introduction to Statistics, Tests, and Measurement (3)** Introduction to descriptive and inferential statistics and to tests and measurement. Topics include: measures of centrality, dispersion, and association; statistical distributions; tests of hypotheses; problems of measurement; achievement, aptitude, and behavior tests; and student evaluation. Offered every summer and fall.

**21.540 Methods and Materials in Secondary Education: English, Social Studies, Mathematics, and Foreign Languages (3)** Specific methods, materials, and applications to special school subjects. Laboratory experiences in the university classroom and in area secondary schools. Analysis of practical experience with respect to current literature. Students provide their own transportation. Usually offered alternate falls. *Prerequisite:* 21.522 (graduate students may enroll concurrently). *Note:* not open to students who have taken 21.340 Methods and Materials in Secondary Education.

**21.541 Foundations of Special Education for Exceptional Children (3)** Characteristics of exceptional children and of problems in providing educational programs to meet their needs. Usually offered every spring.

**21.545 Overview of All Exceptionalities: The Arts in Special Education (3)** An experiential course treating a variety of handicapping conditions and introducing a panoply of art forms. Students learn to program for success in each art form by building on the abilities, strengths, and interests of each disabled person, systematically programming academic material into arts activities, and teaching socialization and life skills. Usually offered every fall.

**21.551 Counseling Skills in Training and Development (3)** The development of basic counseling and interviewing skills needed to assist in individual development through

the life span, with an emphasis on adult social, personal, and career development. Usually offered every fall.

**21.552 The Teaching of Mathematics in Elementary Education (2)** Materials and methods for teaching mathematics. Emphasis on the analysis of current research and effective mathematics instruction. Laboratory experiences in the university classroom and in area elementary schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Elementary Education Program. Must be taken concurrently with 21.553, 21.554, 21.555, and 21.556.

**21.553 The Teaching of Language Arts in Elementary Education (2)** Strategies for teaching language arts in elementary school. Emphasis is on teaching reading, speaking, and writing skills to elementary school students with special attention to the most current research in language arts instruction. There is practical application in local elementary schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Elementary Education program. Must be taken concurrently with 21.552, 21.554, 21.555, and 21.556.

**21.554 The Teaching of Social Studies in Elementary Education (2)** Lecture, discussion, and practical application of materials and skills for social studies education of children through grade six. Emphasis on the analysis of current research in effective social studies teaching. Field work in local schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Elementary Education program. Must be taken concurrently with 21.552, 21.553, 21.555, and 21.556.

**21.555 The Teaching of Reading in Elementary Education (3)** Through participation in the university classroom and subsequent application of knowledge in the field, students learn the major reading approaches and accompanying materials currently used in elementary schools. Emphasis on the analysis of current research in effective reading instruction. Field work and practice teaching in local schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Elementary Education program. Must be taken concurrently with 21.552, 21.553, 21.554, and 21.556.

**21.556 The Teaching of Science in Elementary Education (3)** Methods, materials, and curriculums used in elementary school science; basic laboratory skills, safety and legal aspects. Field trips and field experiences. A practicum in the schools included. Usually offered every fall. *Prerequisite:* admission to the Elementary Education programs. Must be taken concurrently with 21.552, 21.553, 21.554, and 21.555.

**21.558 Psychodynamics of Family Life (3)** The normal developmental stages of families and the variety of maladaptive responses to family crises. Usually offered every fall.

**21.561 Introduction to Student Development in Higher Education (3)** Philosophical, psychological, and sociological bases for student personnel administration. Emphasis on admission, orientation, counseling, judiciary functions, student activities, financial aid, housing, health

services, and career counseling and placement in student personnel services. Usually offered every fall.

**21.566 Seminar: Cultural Factors in Higher Education (3)** Study of college students and their culture. Emphasis on assessment and evaluation of phenomena in the college setting to gain insight into cultural dynamics that bear on student development. Usually offered every spring.

**21.583 Curriculum Construction and Program Design (3)** A review of the history of curriculum development, an analysis of current curricular issues, development of a comprehensive curriculum design based on a goal-focused model. An emphasis on curriculum development skills for a variety of educational settings. Usually offered every fall.

**21.590 Independent Reading Course in Education (1-6)**

**21.599 Student Teaching (6-15)** Various sections provide student teaching opportunities in elementary, secondary, and special education classrooms as appropriate to student interest and professional preparation. Student teaching includes observation, teaching, seminars, and conferences with cooperating teachers and university supervisors. Students provide their own transportation. Applications for student teaching must be submitted by October 1 or March 1 for the following semester. Usually offered every fall and spring. *Prerequisites:* successful completion of the appropriate methods courses, recommendation of the methods instructor, admission to the School of Education, and timely completion of written applications for student teaching placement. *Secondary-school foreign language* students may take methods concurrently with student teaching. *Elementary and secondary schools:* music (for students desiring certification for kindergarten through twelfth grade, student teaching is split between elementary and secondary placements); admission to the teacher education program and student teaching, and successful completion of appropriate methods courses.

## Graduate Courses

**21.605 Methods of Psychoeducational Assessment for Learning Disabilities and Emotional Disturbance (3)** Critical issues and concepts in the measurement of behavior, data interpretation, and follow-up evaluation for learning-disabled and emotionally disturbed children and adolescents. Usually offered every spring. *Prerequisite:* 21.645 and 21.525 or permission of instructor.

**21.606 Theories and Methods in Diagnostic and Remedial Mathematics (3)** Readings, demonstrations, educational games, and laboratory exercises. The material is implemented in trainees' classroom. Usually offered every spring.

**21.607 Research Seminar in Special Education (3)** A review of basic research designs used in special education, with emphasis on developing an interdisciplinary research case study. Usually offered every fall. *Prerequisite:* permission of instructor.

**21.608 Educating for Global Citizenship (3-6)** This six-week institute for elementary and secondary teaching examines the dynamics of conflict and peacemaking through a case study approach to current conflicts. Review

and development of curriculum materials and instruction in conflict resolution skills provide the context for transferring the themes of the Institute to classroom situations. Meets with 33.608. Usually offered every summer. *Prerequisite*: permission of instructor.

**21.610 Methods of Inquiry: Utilizing Information Effectively (3)** Examines how qualitative and quantitative research is utilized to understand complex issues. Explores how research shapes and influences educational policy and practice, how individuals evaluate the efficacy of research information received, and how they make informed choices and decisions when initiating research by themselves or others. Usually offered every spring.

**21.611 Formative Ideas of Contemporary Education (3)** Analysis of turning-point social and educational thought and research instrumental in shaping modern educational institutions, their cultures, policies, and practices. Social ideas and educational research and philosophy are linked to institutional values, policy and practice, and to contemporary educational issues such as equity, multiculturalism, and global education. Usually offered every fall.

**21.612 Educational Equity (3)** Designed to investigate the impact of bias in school. From earliest colonial schools to contemporary classrooms, bias, selectivity and access have short circuited the education of students based on race, religion, gender, ethnicity, class, and disability. Provides both historical perspective and contemporary knowledge and skills to recognize and remediate bias. Course content explores equity issues in neighborhood schools, higher education as well as the international community. Usually offered alternate springs.

**21.619 Children's Literature: Multicultural and International Approaches (3)** Analysis of various genres of children's literature and of the way contemporary issues are reflected in children's books from preschool through adolescence. Topics include the portrayal of minority groups, women, the elderly, those from different cultures, changing family lifestyles, death and dying, and the international concerns of war and peace. Meets with 21.319. Usually offered every spring.

**21.620 Theories of Educational Psychology (3)** Surveys research literature in learning and human development with an emphasis on the role of educators as decision makers and change agents, who are knowledgeable about diversity and multiculturalism. Emphasizes the role today's educators play on advancing knowledge about instructional technology, human relations, time management, principles of growth and development, and the processes of memory and cognition. Usually offered every spring and summer.

**21.625 Global Education (3)** This course deals with the role of American education in an interdependent world, examining both the multicultural character of American classrooms and the international dimensions of the American school curriculum. It explores such issues as ethnocentrism, empathy, and global awareness, including an analysis of educational materials and methods useful in treating these issues. A special emphasis is placed on developing skills for cross-cultural understanding and communication. Usually offered every spring.

**21.631 Fundamentals of Management in Educational Organizations (3)** Overview of the general characteristics of organizations and organizational change, and the roles and tasks of managers, with emphasis on the distinctive nature of educational organizations. Analysis of the organizational issues faced in providing quality education, and the managerial and leadership skills necessary to operate effectively in educational organizations. Usually offered every fall. *Prerequisite*: permission of instructor.

**21.632 Case Studies in Education Management (3)** A case-study approach to the study of internal problems. Problem-solving models employed in simulated and real situations in education and other training settings. Offered irregularly. *Prerequisite*: 21.631.

**21.633 Financing Educational Systems (3)** Principles and practices of financing public education programs at federal, state, and local levels. Taxes, bonds, budgets, purchasing systems, accounting systems, and other aspects of school business administration are covered. Offered irregularly. *Prerequisite*: 21.631.

**21.634 Education and Public Policy (3)** Examines factors influencing and affecting public policy at all levels of education. Examines the theories and techniques of policy analysis as applied to educational issues, and then explores specific issues and events which shape and alter the public's involvement in educational matters. Usually offered every fall. *Prerequisite*: permission of instructor.

**21.635 Training Program Design (3)** An introduction to the design and delivery of adult training programs, emphasizing the development of skills in a variety of training components: needs assessment, goals and objectives, training methodologies and materials, and evaluation. This course is equally appropriate for novice trainers or those with previous experience. Usually offered every fall.

**21.639 Effective Leadership Skills (3)** A theory-based, skills-oriented workshop for administrators, dealing with concepts of administrative effectiveness, administrative style awareness, style flexibility, situational diagnosis skills, and team skills. Usually offered every spring.

**21.644 Language Development and Remediation (9)** How does one learn to use language to express thoughts and feelings? How does one teach a learning-disabled child to communicate effectively? This course discusses the developmental sequence of language learning, the nature of language disorders, diagnostic assessment of language disorders, and remedial techniques. Usually offered every fall.

**21.645 Learning Disabilities I (3)** Examines neurological and developmental aspects of learning disabilities. Usually offered every fall. *Prerequisite*: permission of instructor.

**21.646 Learning Disabilities II (3)** Develops diagnostic capabilities in order to select and design materials and programs for learning-disabled children and youth. Special problems of learning disabled adolescents and adults are studied in depth. Post-secondary education, career awareness, and career development approaches and programs are represented. Counseling techniques for parents and mainstream teachers are addressed. Usually offered every spring. *Prerequisite*: 21.645.

**21.650 Proseminar: International Education (S)** The culminating course for Master's candidates in the International Education program. Serving as a capstone course, it requires students to prepare a portfolio that synthesizes their program of study and identifies and analyzes organizations that operate in their area. Usually offered every spring. *Prerequisite:* 21.625 or 21.678; open to International Education M.A. candidates or by permission of instructor.

**21.653 Techniques and Theories of Counseling in Education (S)** Contemporary theories of counseling, personality, and psychotherapy. Discussion of techniques and issues in counseling; practice interviewing and counseling using specific techniques. Offered irregularly. *Prerequisite:* 21.551.

**21.654 Career Counseling Theory and Practice (S)** Administration and interpretation of vocational tests; methods of preparing and presenting occupational information; research and theories of vocational choice; theories and practices in placement. Emphasis is on the adult learner. Usually offered every spring. *Prerequisite:* permission of instructor.

**21.658 Family Systems and Family Therapy (S)** The family as a system. Emphasis is on interaction of family members, family crises, diagnosis, and family treatment theories and interventions. Conjoint and Multiple Impact Therapy approaches and other interdisciplinary and ecological systems of family therapy are also emphasized. Offered irregularly. *Prerequisite:* 21.551.

**21.662 Classroom Management (S)** Preservice teachers learn about the instructional and behavioral components of classroom management. Students gain skills in assessing behavior problems, planning interventions, implementing various strategies, and evaluating the effectiveness of interventions. Special attention is given to diverse populations of students, for example, those with exceptional needs, those from different cultural backgrounds, those who use English as a second language, and those from low socio-economic backgrounds. Usually offered every fall.

**21.663 The Community College (S)** Organizational patterns, diversity of function, students and faculty, and current problems of the two-year institution. Usually offered every summer.

**21.666 Legal Issues in Education (S)** For advanced graduate students pursuing degrees in Administration or Counseling and Development. Study of student-institution relationship, institutional judicial systems, student rights, records, and due-process issues. Offered irregularly.

**21.671 Foundations of Reading: Diagnosis and Remediation (S)** Broad considerations underlying the teaching of reading with emphasis on reading disability and problems of the disabled reader. Usually offered every fall and summer.

**21.678 Comparative and International Education (S)** Examines education as a social institution that both reflects and influences social, economic, and political life in nation states and globally. Emphasizes the role of education as an engine for change in the Third World. Organized around a logical framework of analysis, sometimes called

the Sector Assessment Format, this course analyzes and compares educational systems by examining issues of access, equity, international efficiency, quality, and external efficiency. Offered irregularly.

**21.679 Nonformal Education and Development (S)** An examination of the role of nonformal education in the economic, social, and political development of developing nations. Specifically, the course deals with out-of-school programs in adult education, literacy, health, family planning, agriculture, nutrition, and community development. Case materials from several countries are used to study the issues and techniques involved in human resource development. Offered every spring.

**21.682 School Supervision (S)** For prospective and in-service supervisors of elementary and secondary schools. Clinical and human resources models of supervision. Field practicum. Offered irregularly.

**21.687 Analysis of Instruction and Training (S)** For administrators, supervisors, trainers, and teachers. Research on instructional effectiveness and analysis of teaching and training styles. Students are encouraged to broaden their repertoire of teaching and observation skills. Usually offered every summer. *Prerequisite:* 21.583. *Note:* not open to students who have taken 21.587 Analysis of Instruction and Training.

**21.689 Sexism in School and Society: National and International Perspectives (S)** Topics include textbooks, school counseling, sex-segregated schools, school personnel behavior, classroom interaction, curricular bias, adult communication differences, sexual harassment, vocational education, physical education and athletics, and international developments concerning sex equity. Examination of recent attempts to develop sex-fair textbooks, legal actions such as Title IX of the 1972 Education amendments, and case studies. Meets with 21.389. Usually offered every spring.

**21.690 Independent Study Project in Education (1-6)**

**21.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**21.693 Personnel and Program Evaluation (S)** The course seeks to develop the systematic skills needed to conduct evaluations of training and development programs in various educational and organizational settings. Usually offered every spring. *Prerequisite:* 21.525 or equivalent.

**21.765 Seminar in Student Development in Higher Education (S)** Issues and problems in contemporary programs of student affairs administration. Usually offered every fall. *Prerequisite:* permission of instructor.

**21.769 Practicum in Student Development (3-6)** For advanced students in student personnel services in higher education. Students are assigned to areas of a program of student personnel services for exploratory administrative case and research experience. May be repeated for credit but not in the same term; topic may be the same. Usually offered every summer. *Prerequisite:* permission of instructor.

**21.790 Educational Research (3)** Fundamentals, methods, and materials for educational research. Required of all doctoral students. Usually offered every spring. *Prerequisite:* 21.525 or equivalent and admission to a graduate degree program in education.

**21.791 Research Seminar in Education (3)** A comprehensive research paper is required. A grade of B or higher is required to receive credit. Offered irregularly. *Prerequisite:* 21.790.

**21.792 In-Service Training Project: Internship in Education (3-12)** Internships in cooperating school systems and other agencies and organizations as an integral part of degree programs in the School of Education. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

**21.797 Master's Thesis Seminar (1-6)** At least three credit hours are required of all students working on master's theses. Usually offered every term.

**21.799 Doctoral Dissertation Seminar (1-12)** A total of twelve credit hours is required of all students working on doctoral dissertations. Usually offered every term. *Prerequisite:* 21.790 or equivalent and advancement to candidacy.

## Literature

### Undergraduate Courses

**23.100 College Writing (3)** Develops students' skills in reading with understanding, summarizing and synthesizing information accurately, and writing correct, reasoned prose. Usually offered every term. *Note:* Completion of 23.100 and 23.101 with grades of C or better fulfills the university College Writing and English Competency Requirement.

**23.101 College Writing Seminar (3)** Continues the work begun in 23.100, stressing the student's abilities to construct extended arguments, to synthesize diverse materials, and to pursue library research. Usually offered every term. *Prerequisite:* 23.100 or permission of department. *Note:* Completion of 23.100 and 23.101 with grades of C or better fulfills the university College Writing and English Competency Requirement.

**23.102 College Writing (3)** 23.102 and 23.103 are essentially the same as 23.100 and 23.101. They are designed, however, for students whose language skills need special attention, and they have an additional class session each week. Usually offered every term. *Note:* Completion of 23.102 and 23.103 with grades of C or better fulfills the university College Writing and English Competency Requirement.

**23.103 College Writing Seminar (3)** See course description for 23.102. Usually offered every term. *Prerequisite:* 23.102 or equivalent. *Note:* Completion of 23.102 and 23.103 with grades of C or better fulfills the university College Writing and English Competency Requirement.

**23.105 The Literary Imagination /A 1:1 (3)** Explores the fundamental imaginative processes that underlie and connect the activities of literary creation and literary understanding. Besides reading works by both male and female writers chosen from a variety of times and places

to represent each of the major genres, students also do critical and creative writing of their own. Usually offered every term. *Note:* not open to students who have taken 23.141 Understanding Literature.

**23.110 College Reading (2-3)** Develops the ability to cope efficiently with the rigors of academic life. Emphasizes practical techniques of reading in different disciplines, speed reading, time management, note taking, exam skills, and research. Usually offered every term. Consult adviser to determine whether to register for 2 or 3 credit hours.

**23.115 Remarkable Literary Journeys /A 2:1 (3)** A selective introduction to the tradition of Western literature from oral epic to twentieth-century texts, this course builds on a central literary metaphor: the idea of the journey or quest. Diverse literary masterpieces embody but also go beyond this concept, offering students a rich foundation in classical works of the Western literary imagination. Usually offered every term.

**23.120 Interpreting Literature /A 1:1 (3)** This course teaches students to analyze and interpret literary texts: poetry, drama, and prose fiction. It teaches the general process through which one comes to a more comprehensive understanding of literary works. Since interpreting entails the ability to communicate understanding, the course also teaches the writing of interpretive criticism. Usually offered every term. *Note:* not open to students who have taken 23.140 Critical Reading.

**23.130 Honors English I (3)** Limited to first-year students, by invitation. Usually offered every fall. *Note:* Completion of 23.130 and 23.131 with grades of C or better fulfills the university College Writing and English Competency Requirement.

**23.131 Honors English II (3)** Limited to first-year students, by invitation. Usually offered every spring. *Note:* Completion of 23.130 and 23.131 with grades of C or better fulfills the university College Writing and English Competency Requirement.

**23.135 Critical Approach to the Cinema /A 1:1 (3)** Analysis of film content and style through screenings and substantial readings in aesthetic theory and film history. Also considers social issues, cultural artifacts, and forms of artistic expression. Usually offered every term. *Note:* not open to students who have taken 23.275 Critical Approach to Cinema.

**23.150 Third World Literature /A 3:1 (3)** An introduction to literature written by writers from the Third World: Africa, Asia, and Latin America. The emphasis is on contemporary fiction and the ways that this writing depicts cultural and political change brought about by the impact of outside forces. Usually offered every term.

**23.180 Writing Workshop (3)** An intensive writing seminar reviewing grammar and the principles of clear, correct expository prose. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or 23.102 and 23.103 or permission of instructor.

**23.200 Introduction to Creative Writing (3)** Creative writing for beginning students who want to write poetry, fiction, drama, reportage, and autobiography, with specific assignments in each category. With departmental permis-

sion, course may be repeated for credit, but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

**23.201 Advanced Writing Workshop (3)** Seminar designed to help students polish their writing skills. Stresses persuasive, expository, and informational writing. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

**23.202 Writing for Prospective Lawyers (3)** An advanced course in writing designed to hone the skills necessary to write legal briefs, memoranda, and agreements. Particular attention is paid to logic and argumentation. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

**23.203 Business Writing (3)** The course stresses clarity, conciseness, and directness in the preparation of correspondence, memoranda, reports, proposals, and other kinds of writing common in the business world. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or 23.102 and 23.103.

**23.205 Issues, Ideas, and Words (3)** Through class discussions and frequent written assignments, the course helps students understand and articulate their learning in relation to thought in the humanities, natural sciences, and social sciences. Usually offered every term. *Prerequisite:* enrollment limited to students in the APEL program. *Note:* Completion of 23.205 and either 23.101 or 23.103 with grades of C or better fulfills the university College Writing and English Competency Requirement.

**23.210 Survey of American Literature I (3)** A historical study of American writers and their contributions to the diversity of American literary forms and intellectual life, from the Puritan settlement to Dickinson and Whitman. Writers are appraised aesthetically, both individually and in cultural context. Usually offered every fall.

**23.211 Survey of American Literature II (3)** A historical study of American writers and their contributions to the diversity of American literary forms and intellectual life, from post-Civil War to the present. Writers are appraised aesthetically, both individually and in a cultural context. Usually offered every spring.

**23.215 Writers in Print/In Person /A 1:2 (3)** Offers students the opportunity to study works by contemporary authors and then to continue their exploration of these works in meetings with the writers. Features locally and nationally prominent writers, including American University writing faculty. Usually offered every term. *Prerequisite for General Education credit:* 23.120 or 67.115. *Note:* not open to students who have taken 23.241 Living Writers.

**23.220 Survey of British Literature I (3)** A historical exploration of a range of writers in the British tradition, from Chaucer through the eighteenth century. Writers are examined as individual artists and as representatives of their age. Usually offered every fall.

**23.221 Survey of British Literature II (3)** A historical exploration of a range of writers in the British tradition, from the Romantic period through the twentieth century. Writers are examined as individual artists and as representatives of their age. Usually offered every spring.

**23.225 The African Writer /A 1:2 (3)** Contemporary African literature, with special emphasis on the role of the writer. The course includes many of the major African literary works of the last sixty years—fiction, poetry, and drama—and at the same time focuses on the African writer's unique role as creator of functional art. Usually offered every fall. *Prerequisite for General Education credit:* 23.120 or 23.105.

**23.230 Major European Writers I: An Introductory Survey (3)** A study of selected continental writers from the Greeks to the seventeenth century. The method is chronological, with attention given to the emergence and development of major literary forms. Usually offered every fall.

**23.231 Major European Writers II (3)** An introductory survey of the major European writers and literary periods from the eighteenth to the twentieth century. Usually offered every spring.

**23.235 African-American Literature /A 2:2 (3)** A survey of African-American literature beginning with the poet Phillis Wheatley and the slave narratives of the 1700s and concluding with Malcolm X and Toni Morrison. The emphasis is on the continuity of black writing within its historical and cultural contexts. Usually offered every spring. *Prerequisite for General Education credit:* 23.115 or 29.115. *Note:* not open to students who have taken 23.324 Black American Literature.

**23.240 Narrative and Knowledge /A 1:2 (3)** Since Aristotle's distinction between tragedy and history, the novel has been defined by its relationship to true events. This course confronts the aesthetic workings of various narratives, their roots in romance and history, as well as how they refer to "reality," historical fact, and transcendent truth. Usually offered every term. *Prerequisite for General Education credit:* 23.105 or 23.135.

**23.245 The Experience of Poetry /A 1:2 (3)** Without dwelling on "professional" terminology and technique, the course aims to make poetry more accessible and enjoyable through reading, writing, and discussion. Students are asked to write some poetry along with nearly traditional papers, but the poetry assignments are designed to reassure those who doubt their creativity. Usually offered every term. *Prerequisite for General Education credit:* 23.120 or 23.105. *Note:* not open to students who have taken 23.304 Elements of Poetry.

**23.250 Image of Italy in English and American Writers (3)** From Edward Gibbon to Ezra Pound, English and American writers have been stimulated by their experience in Italy in a way fundamental to the development of their work. This course explores the changing and complex image of Italy in English and American literature. Offered only in Rome. Usually offered every term.

**23.251 Roman Literature in Translation (3)** A survey of ancient Roman literature focusing on the theme of urbanity and city life from Plautus through Juvenal, middle republic through middle empire. Readings from comedy, lyric poetry, epic, history, essay, novella, letters, law, and satire. Offered only in Rome. Usually offered every term.

**23.255 Political Revolutions and Literary Continuity, 1680-1798 /A 2:2 (3)** An examination of four competing ideologies from 1660 to 1798. Introduction to the ideas and

institutions in Western culture that are associated with the emergence of modern thought. Students read texts across the curriculum (art, literature, history, philosophy) to better grasp this essential period. Usually offered every fall. *Prerequisite for General Education credit:* 23.115 or 29.110 or 60.105.

**23.265 Literature and Society in Victorian England / A 2:2 (3)** The connections between literary works and their social context. The course is divided into significant cultural topics, such as the effect of scientific advancement on society at large, how Victorians perceived themselves at home and at work, and how issues of political reform affected literary works. Readings include historical studies, as well as novels and poems. Usually offered every spring. *Prerequisite for General Education credit:* 29.110 or 23.115. *Note:* not open to students who have taken 01.200 Honors Seminar in the Arts and Humanities: Culture and Society in the Nineteenth Century.

**23.270 Transformations of Shakespeare / A 1:2 (3)** Shakespeare's use of dramatic form, such as tragicomedy, masque, and spectacle. In addition, students learn about the interrelationship between form and meaning by seeing how the cultural myths encoded in these genres become transformed in different ages, media, and cultures. Usually offered every term. *Prerequisite for General Education credit:* 07.105 or 23.120 or 67.115.

**23.301 Development of the Novel (3)** A study of the form of the novel in the West, from its beginnings on the European continent during the Renaissance (Cervantes and Madame de La Fayette), through the New Novel (Robbe-Grillet). Readings in representative novelists and critics of the genre. Meets with 23.601. Usually offered alternate falls.

**23.303 The Short Story (3)** Concentrates either on the evolution of the short story as a form, or on its characteristic shape in particular literary traditions (e.g., Eastern Europe) or at particular times (e.g., The Contemporary American Short Story). Meets with 23.603. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.306 Topics in Folklore (3)** Rotating topics, including ethnic folklore; occupational folklore; folklore and literature; women's folklore; folktales, ballads, and epics; the folklore of Ireland; storytelling and society; urban folklore; the folklore of Washington, D.C.; family folklore; and children's folklore. Meets with 23.606. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.307 Drama: The Page and the Stage (3)** Examples of major dramatic forms (tragedy, comedy, and tragicomedy) from the classical Greek period to the present. The plays are studied as drama and as cultural artifacts of the ages in which they were produced. Meets with 23.607. Usually offered alternate years.

**23.308 Modern Drama (3)** Modern drama as written literature, from Ibsen to the most recent dramatic movements: theatre of the absurd, theatre of cruelty, etc. Meets with 23.608. Offered irregularly.

**23.309 Theater in England (3)** Drama in performance. Plays from the classical to the contemporary at venues

ranging from London's National Theatre to the Royal Shakespeare Company in Stratford-upon-Avon. Literary, theatrical, and historical analysis of the plays and class discussions with actors from two performances. Required of all London Semester students. Usually offered every term.

**23.310 Major Authors (3)** Intensive study of the works of one or more important authors. Attention is paid to the evolution of the author's canon, to the effects of (and on) the literary context, to the relationship between works and biography, and to the historical and cultural context of the writer. Meets with 23.610. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.315 Poetry in the Age of Whitman and Dickinson (3)** Focus on the poems of Whitman and Dickinson, although other writers may be studied, in order to illuminate the period. The course is not primarily historical, but aims at relating the background to the works of art. Close reading of individual texts is required. Meets with 23.615. Usually offered alternate falls.

**23.316 Nineteenth Century American Novel (3)** Emphasis on literary evolution of a form as it expresses historical evolution of national consciousness. Novelists studied include Hawthorne and Melville. Meets with 23.616. Usually offered every year.

**23.317 Emerson, Thoreau, and Twain: Nineteenth Century American Prose (3)** Readings in nonfictional non-poetic literature—essays, addresses, journals, lectures, etc.—of the nineteenth century. The work of Emerson and Thoreau is stressed. Meets with 23.617. Usually offered alternate springs.

**23.318 American Literary Realism (3)** Characteristics of novels and short fiction in the realist and naturalist modes. Reading includes works by such writers as Henry James, Mark Twain, William Dean Howells, Kate Chopin, Stephen Crane, Theodore Dreiser, Edith Wharton, Robert Penn Warren, and Richard Wright. Meets with 23.618. May be repeated for credit within the same term; topic must be different. Usually offered alternate falls.

**23.320 Modern American Poetry, 1912–1950 (3)** Detailed treatment of such established figures as Eliot, Stevens, Frost, Pound, and Williams. The poets chosen may differ from semester to semester, but at least two of these names appear in every session. Other poets may be considered at the discretion of the instructor. Meets with 23.620. Usually offered alternate springs.

**23.321 Faulkner and the Literature of the South (3)** Readings in the novels, stories, poetry, and essays of the major figures (Southern Agrarians, Wolfe, W.A. Percy, and especially Faulkner) and their successors (O'Connor, Welty, and Walker Percy). Concern is with their art, with the social conditions in which they flourished, and their attitudes toward those conditions. Meets with 23.621. Usually offered alternate springs.

**23.322 Contemporary American Literature (3)** Topics in American poetry and fiction since World War II. Examination of theories, forms, and strategies of recent fiction; and theories, figures, and modes of recent poetry. Meets with 23.622. May be repeated for credit within the same



term; topic must be different. Usually offered every year. **Note:** Students who have received credit for 23.322 Contemporary American Poetry may not take this course if the topic is poetry. Students who received credit for 23.323 Contemporary American Fiction may not take this course if the topic is fiction.

**23.325 Fitzgerald and Hemingway (3)** A study of the fiction of Fitzgerald and Hemingway with emphasis on their common theme of loss. The relationship between them and their place in the literary period of the twenties and thirties is explored, but the main emphasis is thematic analysis of specific works. Meets with 23.625. Usually offered every year.

**23.330 Celtic Myth and Literature (3)** Shows the vital importance of literature in all aspects of early Indo-European society—religion, magic, government, law, education, etc. Includes readings in history, archaeology, social structure, art, and myth, as well as major sagas and poems of Ireland and Wales. Meets with 23.630. Usually offered alternate years.

**23.331 Chaucer (3)** A study of the narrative art and moral vision of Chaucer's poetry. Directed readings in social, historical, and intellectual backgrounds. An introduction to the study of medieval literature. Meets with 23.631. Usually offered every spring.

**23.332 Shakespeare Studies (3)** Rotating topics on the works of William Shakespeare, including selected early plays, selected later plays, and Shakespeare on film. Meets with 23.632. May be repeated for credit within the same term; topic must be different. Usually offered every term. **Note:** Students who have received credit for 23.332 Shakespeare I may not take this course if the topic is Plays before 1600. Students who have received credit for 23.332 Shakespeare II may not take this course if the topic is Plays after 1600.

**23.334 Literature of the Renaissance (3)** Topics in Renaissance literary studies, including Renaissance drama other than Shakespeare (Christopher Marlowe, Ben Jonson, and others), and Renaissance poetry with special emphasis on Sidney, Spenser, Donne, and the Metaphysical and Cavalier poets. Meets with 23.634. May be repeated for credit within the same term; topic must be different. Usually offered every year. **Note:** Students who have received credit for 23.335 Renaissance Poetry may not take this course if the topic is poetry. Students who have received credit for 23.334 Renaissance Drama may not take this course if the topic is drama.

**23.336 Milton (3)** Milton as a thinker and a poet. Selections from the prose works are read and analyzed as background for Milton's thought. Most of the semester is devoted to a close reading of the poems, which are studied with a view toward tracing Milton's development of form and his methods of projecting his world view. Meets with 23.636. Usually offered alternate falls.

**23.337 Restoration and Eighteenth Century Literature (3)** Major writers and dominant forms in the Restoration and Neoclassical tradition, including drama, prose fiction, and poetry, as well as essays and satires. Meets with 23.637. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.339 The Rise of the British Novel (3)** A study of novels such as *Moll Flanders*, *Clarissa*, *Tom Jones*, *Tristram Shandy*, and *Emma*, which, with a variety of attitudes and narrative techniques, give images of how real people deal with themselves and others, and portray family life, street life, courtship difficulties, and moral dilemmas of seventeenth and eighteenth century England. Meets with 23.639. Usually offered alternate falls.

**23.340 Dickens to Conrad: The Nineteenth Century British Novel (3)** Authors such as Dickens and Hardy, titles such as *Vanity Fair*, *Middlemarch*, and *Wuthering Heights*, which explore people's attempts to deal with powerful social pressures, the attractions of money and success, characters' individual impulses and needs, and the eternal verities. Technique is studied, as well as theme and character. Meets with 23.640. Usually offered alternate springs.

**23.341 The Romantic Imagination (3)** Most offerings focus on central figures in the English Romantic movement (Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats), but some broaden the term "Romantic" to include writers from various periods and countries who see the imagination, rather than discursive reason, as the prime means of apprehending the truth behind phenomena. May be repeated for credit within the same term; topic must be different. Usually offered every year.

**23.343 Modern British Literature (3)** Topics in the twentieth-century literature of Great Britain including matters of technique, style, and social themes. Reading and discussion of such representative writers as Joyce, Lawrence, Forster, Woolf, Huxley, Fowles, Lessing, Hardy, Yeats, Edith Sitwell, Auden, Shaw, Maugham, O'Casey, Eliot, Behan, and Pinter. Meets with 23.643. May be repeated for credit within the same term; topic must be different. Usually offered alternate years. **Note:** Students who have received credit for 23.343 Modern British Fiction may not take this course if the topic is fiction. Students who have received credit for 23.344 Modern British Poetry and Drama may not take this course if the topic is poetry and drama.

**23.345 The Irish Renaissance (3)** The works of Yeats, Joyce, Synge, O'Casey, Frank O'Connor, Liam O'Flaherty, and others are read, and the tradition they form is related to contemporary nationalist movements. Topics alternate between the prose fiction and the poetry and drama of modern Ireland. Meets with 23.645. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate years.

**23.350 Literature of Central Europe in the Twentieth Century (3)** Introduces students to the literary interrelations among the various national and ethnic groups of Central Europe including Bohemia, Austria, Germany, and Hungary, and their dependence on Russian and Scandinavian authors. Writers studied include Dostoyevsky, Kafka, Koestler, Kraus, Meyerink, Schnitzler, Werfel, and Zweig. Offered only in Prague. Usually offered every fall.

**23.360 Medieval Literature (3)** The beginnings of literature in Western Europe. A study of that literature as the definition, celebration, and examination of the aesthetic and ethical values of medieval culture. Medieval epic,

drama, lyric, and romance in translation. Meets with 23.660. Usually offered alternate falls.

**23.361 Directions in Modern Fiction (3)** Fiction that embodies distinctive threads of the twentieth century fiction of several nationalities (American, English, French, and German). Emphasis is on underlying philosophical-psychological premises reflected in the works, such as existentialism and myth, and on literary techniques and innovations, such as stream of consciousness, point of view, and chronology. Meets with 23.661. Usually offered alternate springs.

**23.365 The Political Novel (3)** An investigation of how writers engage political issues or the political process in fiction. Includes such works as Henry Adams's *Democracy*, Robert Penn Warren's *All the King's Men*, Emile Zola's *The Debacle*, George Orwell's *1984*, Arthur Koestler's *Darkness at Noon*, and Albert Moravia's *The Fancy Dress Party*. Meets with 23.665. Usually offered alternate years.

**23.367 Russian and Soviet Literature (3)** An introduction to Russian and Soviet literature in translation from the Middle Ages to the present. Meets with 23.667. Usually offered alternate springs.

**23.368 Dostoyevsky and Tolstoy (3)** Intensive study of selected works of Dostoyevsky and Tolstoy. Authors are treated individually with some comparison. Meets with 23.668. Usually offered alternate falls.

**23.370 A Room of One's Own: Women and Literature (3)** Women as writers of and characters in literature. The major issues covered are coming of age, sexuality, marriage, alternative roles, identity, motherhood, androgyny, and autonomy. Readings include works by both female and male authors—Woolf, Austen, Hardy, Hawthorne, Lessing, Drabble, Ibsen, and others. Meets with 23.670. Usually offered every fall.

**23.375 Film and Literature (3)** Adaptations of literature to film and film to literature. Themes and techniques shared among storytelling arts. Psychological, social, and political implications of analogous works of poetry, fiction, drama, and film. Laboratory fee. Meets with 23.675. May be repeated for credit within the same term; topic must be different. Usually offered alternate years.

**23.376 National Cinema (3)** Landmarks of the cinema from a particular country or region such as France, Italy, Eastern Europe, Japan, and the United States. Screenings, readings, and analysis, with attention to artistic movements, historical contexts, and clashing theories and styles. Laboratory fee. Meets with 23.676. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.377 Popular Film Genres (3)** The traditions, conventions, and outstanding films and filmmakers of a popular genre such as comedy, the western, the thriller, the musical, the gangster film, science fiction, detective, and horror movies. Screenings, readings, discussions, and written analyses. Laboratory fee. Meets with 23.677. May be repeated for credit in the same term; topic must be different. Usually offered every term.

**23.378 Major Filmmakers (3)** Intensive study of one or two great directors such as Hitchcock, Antonioni, Fellini,

Kurosawa, Ozu, Chaplin, Bergman, and Ford. Screenings, analyses, and critical readings to explore evolving personal style, aesthetic and social context, and theoretical issues. Laboratory fee. Meets with 23.678. Usually offered every year.

**23.380 Independent Filmmakers (3)** Underground, experimental, avant-garde, radical, and personal films, usually short films made outside the established filmmaking industry. The freedom in the choice of subject matter and techniques, the variety of modes and styles, and the sheer intensity of works of Brakhage, Frampton, Belson, Warhol, Vertov, Dehnen, and scores of others destroy the myth that only commercial, feature-length films can be great. Laboratory fee. Meets with 23.680. Usually offered alternate springs.

### **23.390 Independent Reading Course in Literature (1-6)**

**23.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**23.400 Creative Writing: Fiction (3)** A writing workshop with students reading their work aloud and commenting on one another's efforts. The teacher reserves the right to have the last word. Meets with 23.700. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. *Prerequisite:* 23.200 or equivalent, or permission of instructor.

**23.401 Creative Writing: Poetry (3)** An intensive approach to the techniques of writing verse, followed by several weeks of workshop sessions in which students' poems receive responses from the entire class. Meets with 23.701. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. *Prerequisite:* 23.200 or equivalent, or permission of instructor.

**23.402 Creative Writing: Film Script (3)** An introduction to writing developing stories for the screen. A study of the special contributions of the writer to film art. Screenings, reading, writing, and rewriting. Meets with 23.702. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. *Prerequisite:* permission of instructor.

**23.405 Seminar on Translation (3)** Designed primarily for writers, this course introduces students to the international community of writers by providing approaches to and models for the translation of literary works as well as experience in translating. It is expected that students will learn about the use of their own language in the process. Fluency in another language is helpful but not required. Meets with 23.705. Usually offered every spring.

### **23.490 Independent Study Project in Literature (1-6)**

**23.491 Practical Internship in Literature (3)** Practical work in writing and research for various agencies and publications. Experience in apprentice teaching with private schools and diverse groups. Project must be approved in advance by department chair or undergraduate adviser. Usually offered every term.

**23.498 Senior Seminar in Literature: The Value of Literature (3)** Addresses the following questions: Is literature separable from other forms of linguistic expression? Are there modes of interpretation and study unique to literature? Why has the assertion of literary value found expression in specifying a canon of particular works? Since art and literature are traditionally defined in terms of secondariness, either as reflection, mimesis, or as refinement, the course also addresses the issue of secondariness and marginalization in both literature and literary criticism. Usually offered every fall. *Prerequisite:* Open to Honors students in Literature and others by permission of the department and Honors Director.

### **23.499 Honors, Senior Year (3)**

### **Graduate and Advanced Undergraduate Course**

**23.525 Seminar in Literary History (3)** Studies the identity of specific historical traditions; the ways in which such concepts as periodization affect our reading of literature; and how and why we determine the differences between periods, the identity of periods, and the major voices of a given period. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.526 Seminar in Literary Theory (3)** Provides a methodological basis for theoretical approaches to literary studies; focuses on critical issues in the study of literature; introduces graduate students and advanced undergraduates to basic questions surrounding the activity and discourse of literary research. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.527 The Teaching of Writing (3)** Prepares students to teach classes in college level composition or writing for secondary school students by providing an understanding of contemporary rhetorical theory and methods of teaching. Usually offered every fall. *Note:* Carries graduate seminar credit for students enrolled in the M.A. in Literature and M.F.A. in Creative Writing programs.

### **23.590 Independent Reading Course in Literature (1-8)**

### **Graduate Courses**

**Note:** 600-level courses in literature generally meet with 300-level courses. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

**23.601 Development of the Novel (3)** A study of the form of the novel in the West, from its beginnings on the European continent during the Renaissance (Cervantes and Madame de La Fayette), through the New Novel (Robbe-Grillet). Readings in representative novelists and critics of the genre. Meets with 23.301. Usually offered alternate falls.

**23.603 The Short Story (3)** Concentrates either on the evolution of the short story as a form, or on its characteristic shape in particular literary traditions (e.g., Eastern Europe) or at particular times (e.g., The Contemporary American Short Story). Meets with 23.303. May be re-

peated for credit in the same term; topic must be different. Usually offered every year.

**23.606 Topics in Folklore (3)** Rotating topics, including ethnic folklore; occupational folklore; folklore and literature; women's folklore; folktales, ballads, and epics; the folklore of Ireland; storytelling and society; urban folklore; the folklore of Washington, D.C.; family folklore; and children's folklore. Meets with 23.306. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.607 Drama: The Page and the Stage (3)** Examples of major dramatic forms (tragedy, comedy, and tragicomedy) from the classical Greek period to the present. The plays are studied as drama and as cultural artifacts of the ages in which they were produced. Meets with 23.307. Usually offered alternate years.

**23.608 Modern Drama (3)** Modern drama as written literature, from Ibsen to the most recent dramatic movements: theatre of the absurd, theatre of cruelty, etc. Meets with 23.308. Offered irregularly.

**23.610 Major Authors (3)** Intensive study of the works of one or more important authors. Attention is paid to the evolution of the author's canon, to the effects of (and on) the literary context, to the relationship between works and biography, and to the historical and cultural context of the writer. Meets with 23.310. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.615 Poetry in the Age of Whitman and Dickinson (3)** Focus on the poems of Whitman and Dickinson, although other writers may be studied, in order to illuminate the period. The course is not primarily historical, but aims at relating the background to the works of art. Close reading of individual texts is required. Meets with 23.315. Usually offered alternate falls.

**23.616 Nineteenth Century American Novel (3)** Emphasis on literary evolution of a form as it expresses historical evolution of national consciousness. Novelists studied include Hawthorne and Melville. Meets with 23.316. Usually offered every year.

**23.617 Emerson, Thoreau, and Twain: Nineteenth Century American Prose (3)** Readings in nonfiction, non-poetic literature—essays, addresses, journals, lectures, etc.—of the nineteenth century. The work of Emerson and Thoreau is stressed. Meets with 23.317. Usually offered alternate springs.

**23.618 American Literary Realism (3)** Characteristics of novels and short fiction in the realist and naturalist modes. Reading includes works by such writers as Henry James, Mark Twain, William Dean Howells, Kate Chopin, Stephen Crane, Theodore Dreiser, Edith Wharton, Robert Penn Warren, and Richard Wright. Meets with 23.318. May be repeated for credit within the same term; topic must be different. Usually offered alternate falls.

**23.620 Modern American Poetry, 1912-1950 (3)** Detailed treatment of such established figures as Eliot, Stevens, Frost, Pound, and Williams. The poets chosen may differ from semester to semester, but at least two of these names appear in every session. Other poets may be con-

sidered at the discretion of the instructor. Meets with 23.320. Usually offered alternate springs.

**23.621 Faulkner and the Literature of the South (3)** Readings in the novels, stories, poetry, and essays of the major figures (Southern Agrarians, Wolfe, W.A. Percy, and especially Faulkner) and their successors (O'Connor, Welty, and Walker Percy). Concern is with their art, with the social conditions in which they flourished, and their attitudes toward those conditions. Meets with 23.321. Usually offered alternate springs.

**23.622 Contemporary American Literature (3)** Topics in American poetry and fiction since World War II. Examination of theories, forms, and strategies of recent fiction; theories, figures, and modes of recent poetry. Meets with 23.322. May be repeated for credit within the same term; topic must be different. Usually offered every year. *Note:* Students who have received credit for 23.623 Contemporary American Fiction may not take this course if the topic is fiction. Students who have received credit for 23.622 Contemporary American Poetry may not take this course if the topic is poetry.

**23.625 Fitzgerald and Hemingway (3)** A study of the fiction of Fitzgerald and Hemingway with emphasis on their common theme of loss. The relationship between them and their place in the literary period of the twenties and thirties is explored, but the main emphasis is thematic analysis of specific works. Meets with 23.325. Usually offered every year.

**23.630 Celtic Myth and Literature (3)** Shows the vital importance of literature in all aspects of early Indo-European society: religion, magic, government, law, education, etc. Includes readings in history, archaeology, social structure, art, and myths, as well as major sagas and poems of Ireland and Wales. Meets with 23.330. Usually offered alternate years.

**23.631 Chaucer (3)** A study of the narrative art and moral vision of Chaucer's poetry. Directed readings in social, historical, and intellectual backgrounds. An introduction to the study of medieval literature. Meets with 23.331. Usually offered every spring.

**23.632 Shakespeare Studies (3)** Rotating topics on the works of William Shakespeare, including selected early plays, selected later plays and Shakespeare on film. Meets with 23.332. May be repeated for credit within the same term; topics must be different. Usually offered every term. *Note:* Students who have received credit for 23.632 Shakespeare I may not take this course if the topic is Plays before 1600. Students who have received credit for 23.632 Shakespeare II may not take this course if the topic is Plays after 1600.

**23.634 Literature of the Renaissance (3)** Topics in Renaissance literary studies, including Renaissance drama other than Shakespeare (Christopher Marlowe, Ben Jonson, and others), Renaissance poetry with special emphasis on Sidney, Spenser, Donne, and the Metaphysical and Cavalier poets. Meets with 23.334. May be repeated for credit within the same term; topic must be different. Usually offered every year. *Note:* Students who have received credit for 23.635 Renaissance Poetry may not take this course if the topic is poetry. Students who

have received credit for 23.634 Renaissance Drama may not take this course if the topic is drama.

**23.636 Milton (3)** Milton as a thinker and a poet. Selections from the prose works are read and analyzed as background for Milton's thought. Most of the semester is devoted to a close reading of the poems, which are studied with a view toward tracing Milton's development of form and his methods of projecting his world view. Meets with 23.336. Usually offered alternate falls.

**23.637 Restoration and Eighteenth Century Literature (3)** Major writers and dominant forms in the Restoration and neoclassical tradition, including drama, prose fiction, and poetry, as well as essays and satires. Meets with 23.337. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.639 The Rise of the British Novel (3)** A study of novels such as *Moll Flanders*, *Clarissa*, *Tom Jones*, *Tristram Shandy*, and *Emma*, which, with a variety of attitudes and narrative techniques, give images of how real people deal with themselves and others, and portray family life, street life, courtship difficulties, and moral dilemmas of seventeenth and eighteenth century England. Meets with 23.339. Usually offered alternate falls.

**23.640 Dickens to Conrad: The Nineteenth Century British Novel (3)** Authors such as Dickens and Hardy, titles such as *Vanity Fair*, *Middlemarch*, and *Wuthering Heights*, which explore people's attempts to deal with powerful social pressures, the attractions of money and success, characters' individual impulses and needs, and the eternal virtues. Technique is studied, as well as theme and character. Meets with 23.340. Usually offered alternate springs.

**23.641 The Romantic Imagination (3)** Most offerings focus on central figures in the English Romantic movement (Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats), but some broaden the term "Romantic" to include writers from various periods and countries who see the imagination, rather than discursive reason, as the prime means of apprehending the truth behind phenomena. Meets with 23.341. May be repeated for credit within the same term; topic must be different. Usually offered every year.

**23.643 Modern British Literature (3)** Topics in the literature of Great Britain in the twentieth century including matters of technique, style, and social themes. Reading and discussion of such representative writers as Joyce, Lawrence, Forster, Woolf, Huxley, Fowles, Lessing, Hardy, Yeats, Edith Sitwell, Auden, Shaw, Maugham, O'Casey, Eliot, Behan, and Pinter. Meets with 23.343. May be repeated for credit within the same term; topic must be different. Usually offered alternate years. *Note:* Students who have received credit for 23.643 Modern British Fiction may not take this course if the topic is fiction. Students who have received credit for 23.644 Modern British Poetry and Drama may not take this course if the topic is poetry and drama.

**23.645 The Irish Renaissance (3)** The works of Yeats, Joyce, Synge, O'Casey, Frank O'Connor, Liam O'Flaherty, and others are read, and the tradition they form is related to contemporary nationalist movements. Topics alternate between the prose fiction and the poetry and drama of

modern Ireland. Meets with 23.345. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate years.

**23.660 Medieval Literature (3)** The beginnings of literature in Western Europe. A study of that literature as the definition, celebration, and examination of the aesthetic and ethical values of medieval culture. Medieval epic, drama, lyric, and romance in translation. Meets with 23.360. Usually offered alternate falls.

**23.661 Directions in Modern Fiction (3)** Fiction that embodies distinctive threads of the twentieth century fiction of several nationalities (American, English, French, and German). Emphasis is on underlying philosophical-psychological premises reflected in the works, such as existentialism and myth, and on techniques and innovations such as stream of consciousness, point of view, and chronology. Meets with 23.361. Usually offered alternate springs.

**23.663 French Literature (3)** An introduction to French literature (fiction, drama, and poetry in translation) from the tenth century to the present. Among the writers treated are Chrétien de Troyes, Rabelais, Racine, Molière, la Rochefoucauld, Voltaire, Hugo, Balzac, Flaubert, Baudelaire, Proust, Malraux, and Robbe-Grillet. Offered irregularly.

**23.665 The Political Novel (3)** An investigation of how writers engage political issues or the political process in fiction. Includes such works as Henry Adams's *Democracy*, Robert Penn Warren's *All the King's Men*, Emile Zola's *The Debacle*, George Orwell's *1984*, Arthur Koestler's *Darkness at Noon*, and Albert Moravia's *The Fancy Dress Party*. Meets with 23.365. Usually offered alternate years.

**23.667 Russian and Soviet Literature (3)** An introduction to Russian and Soviet literature in translation from the Middle Ages to the present. Meets with 23.367. Usually offered alternate springs.

**23.668 Dostoyevsky and Tolstoy (3)** Intensive study of selected works of Dostoyevsky and Tolstoy. Authors are treated individually with some comparison. Meets with 23.368. Usually offered alternate falls.

**23.670 A Room of One's Own: Women and Literature (3)** Women as writers of and characters in literature. The major issues dealt with are coming of age, sexuality, marriage, alternative roles, identity, motherhood, androgyny, and autonomy. Readings include works by both female and male authors—Woolf, Austen, Hardy, Hawthorne, Lessing, Drabble, Ibsen, and others. Meets with 23.370. Usually offered every fall.

**23.675 Film and Literature (3)** Adaptations of literature to film and film to literature. Themes and techniques shared among storytelling arts. Psychological, social, and political implications of analogous works of poetry, fiction, drama, and film. Laboratory fee. Meets with 23.375. May be repeated for credit within the same term; topic must be different. Usually offered alternate years.

**23.676 National Cinema (3)** Landmarks of the cinema from a particular country or region such as France, Italy, Eastern Europe, Japan, and the United States. Screenings, readings, and analysis, with attention to artistic

movements, historical contexts, and clashing theories and styles. Laboratory fee. Meets with 23.376. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.677 Popular Film Genres (3)** The traditions, conventions, and outstanding films and filmmakers of a popular genre such as comedy, the western, the thriller, the musical, the gangster film, science fiction, detective, and horror movies. Screenings, readings, discussions, and written analyses. Laboratory fee. Meets with 23.377. May be repeated for credit in the same term; topic must be different. Usually offered every term.

**23.678 Major Filmmakers (3)** Intensive study of one or two great directors such as Hitchcock, Antonioni, Fellini, Kurosawa, Ozu, Chaplin, Bergman, and Ford. Screenings, analyses, and critical readings to explore evolving personal style, aesthetic and social context, and theoretical issues. Laboratory fee. Meets with 23.378. Usually offered every year.

**23.680 Independent Filmmakers (3)** Underground, experimental, avant-garde, radical, and personal films, usually short films made outside the established filmmaking industry. The freedom in the choice of subject matter and techniques, the variety of modes and styles, and the sheer intensity of works of Brakhage, Frampton, Belson, Warhol, Vertov, Doherty, and scores of others destroy the myth that only commercial, feature-length films can be great. Laboratory fee. Meets with 23.380. Usually offered alternate springs.

**23.690 Independent Study Project in Literature (1-6)**

**23.691 Graduate Internship (1-6)** Practical experience in positions making use of the students' writing and organizational skills. Internships are arranged and supervised by a member of the department; consult department office. Required of M.F.A. candidates; open to other graduate students in the department. May be repeated for credit, but not in the same term. Usually offered every term. *Prerequisite:* graduate standing in the department. Authorization of instructor and department chair required.

**23.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**23.700 Advanced Fiction Workshop (3)** A writing workshop with students reading their work aloud and commenting on one another's efforts. The teacher reserves the right to have the last word. Graduate students are expected to submit 12,500 words or more. With permission of instructor may be repeated for credit, but not in the same term. Usually offered every term.

**23.701 Advanced Poetry Workshop (3)** An intensive approach to the techniques of writing verse, followed by several weeks of workshop sessions in which students' poems receive responses from the entire class. With permission of instructor may be repeated for credit, but not in the same term. Usually offered every term.

**23.702 Creative Writing: Film Script (3)** An introduction to writing developing stories for the screen. A study of the special contributions of the writer to film art. Screenings, reading, writing, and rewriting. Meets with 23.402. With

permission of instructor may be repeated for credit, but not in the same term. Usually offered every term.

**23.705 Seminar on Translation (3)** Designed primarily for writers, this course introduces students to the international community of writers by providing approaches to and models for the translation of literary works as well as experience in translating. It is expected that students will learn about the use of their own language in the process. Fluency in another language is helpful but not required. Meets with 23.405. Usually offered every spring.

**23.710 The Art of Literary Journalism (3)** A workshop in which the craft of reviewing books, plays, movies, TV, art, and music is practiced. Speakers who are professionals in each craft are invited to class. Clear expository writing is the aim, tied to established criteria for sound critical approaches in journalism. Usually offered every fall.

**23.725 Seminar in Genre (3)** Graduate seminar. A study of various kinds of literary expression. Topic changes yearly. Previous topics have been the comic vision, short American fiction, the introspective novel, formal theory of the novel, and tragedy. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.726 Seminar in Selected Authors (3)** Graduate seminar. A study of the works of one or two selected writers. Topic changes yearly. Previous topics have been Shakespeare, Keats, Dickens, Whitman, Eliot, Yeats, and Melville. May be repeated for credit in the same term; topic must be different. Usually offered every year.

**23.750 The Folger Seminar in Renaissance and Eighteenth Century Studies (3)** Each semester three graduate seminars are offered. Graduate students at The American University are eligible to participate and should consult the Department of Literature. May be taken more than one semester.

**23.797 Master's Thesis Seminar (1-6)**

## History

### Undergraduate Courses

**29.100 Historians and the Living Past /S 2:1 (3)** Explores the theory and practice of the study of the past. Focuses on the ways in which our thinking is affected by our beliefs about the past; we reconstruct, explain, and evaluate past events; we organize knowledge about the past; and we analyze and evaluate the "lessons of the past." Usually offered every spring.

**29.102 Classical Archaeology: History and Practice (3)** A survey of the development of old-world archaeology from its romantic past to a scientific discipline through an examination of the most important discoveries and modern techniques of excavation; the meaning, method, and fields of archaeological work are examined as a measure of human interest in the past. Offered only in Rome. Usually offered every spring.

**29.110 Renaissance and Revolutions: Europe, 1400-1815 /A 2:1 (3)** The political, economic, and cultural emergence of Europe into world leadership during the period 1400-1815, stressing the problems of building or

rebuilding political and social order, including the attempts to spread European civilization to other parts of the world. Usually offered every term. *Note:* not open to students who have taken 29.106 History of Modern Europe I.

**29.111 Nationalism and Industrialization: Europe Since 1815 /A 8 (3)** Survey of the years from 1815 to the present. The world-wide consequences of nationalism combined with industrialization; the conflict between middle-class domination and awakening working-class consciousness; technology run wild; retreat from reason; and two world wars as the bases for understanding today's shrunken Europe and the warring in ex-colonial lands. Offered irregularly.

**29.115 Work and Community /S 2:1 (3)** In key historical contexts such as the industrial revolution, the development of New World plantations, and the transformation of farming, this course explores the changing relations between work and community. When have people found the opportunity to exert autonomy and creativity at work? How have evolving work relations influenced household composition, family roles, and cultural traditions? Usually offered every fall.

**29.120 Imperialism and Revolution /S 3:1 (3)** The impact of imperialism and revolution since the nineteenth century, particularly on Asia and Latin America. Analyzes theories of imperialism and Western stimulation of nationalism, revolution, racial confrontation, and cultural and demographic transformation. Concentrates particularly on China, Vietnam, and Cuba. Identifies patterns of poverty, instability, and conflict in the "developing" world. Usually offered every term. *Note:* not open to students who have taken 29.105 Twentieth Century World II.

**29.200 Italian Civilization /A 2:2 (3)** The course introduces students to some of the major aspects of Italian culture and civilization. It includes a survey of the history of the city and a discussion of the major developments in its art and architecture. Other topics of discussion include Italian opera and Italian geography. Course supplemented by study tours to cultural sites and monuments. Offered only in Rome. Usually offered every term. *Prerequisite for General Education credit:* 07.100 or 23.115 or 60.105 or 61.105.

**29.201 The Italian Renaissance (3)** A survey of Renaissance culture and history. Relations between Italian city-states, the rebirth of classical humanism, the role of the Church and the papacy, the growth of economic institutions, urban development, and political philosophy. Offered only in Rome. Offered irregularly.

**29.202 The Ancient World: Greece (3)** From Minoan Crete through Alexander the Great. Literary and artistic masterpieces in their historical settings. Emphasis on ancient sources. Usually offered every fall.

**29.203 The Ancient World: Rome (3)** From the Etruscans through Constantine. The interplay of constitution and empire, and the changing views of ethical conduct. Emphasis on ancient sources. Usually offered every spring.

**29.204 Medieval Europe (3)** Exploration of the medieval world-view and consideration of the organization of economic and political institutions, the relationship of secular

and ecclesiastical authority, and the creation of new social and religious ideals during the millennium that bridges antiquity and modernity. Usually offered alternate springs.

**29.205 America's Quests: The U.S. to 1865 / A 2:2 (3)** The history of the United States to 1865: the expansion and transplantation of European civilization; the Native American response; the sectional contest over slavery; the birth of the American feminist movement; and the beginnings of the industrial revolution. Usually offered every term. *Prerequisite for General Education credit:* 29.110 or 53.105. *Note:* not open to students who have taken 29.207 History of the United States I.

**29.206 The U.S. from Emancipation through World War II, 1865-1945 (3)** American history from the end of the Civil War to the end of World War II. Modernization of America and resulting problems. Growth of U.S. power in international affairs. Roots and development of social and political change in America. Usually offered every term. *Note:* not open to students who have taken 29.208 History of the United States II.

**29.207 The United States since 1945 (3)** Introductory course on the last half century of U.S. history. Growing cultural diversity of the American people and interrelatedness of international and domestic affairs. Impact of the Cold War and challenges to traditional ideologies and political solutions. Usually offered every term.

**29.210 Ethnicity in America / S 4:2 (3)** This interdisciplinary course explores how ethnicity has shaped American institutions and behavior patterns from 1607 to the present. Largely a nation of immigrants, this country reflects the racial, religious, and national characteristics of those who migrated here, whether voluntarily or as slaves. Topics include ethnicity's influence on family, politics, civil rights, and foreign policy. Usually offered every spring. *Prerequisite for General Education credit:* 03.150 or 65.100. *Note:* not open to students who have taken 29.210 Ethnic Experience in America.

**29.214 American Cultural History (3)** The major trends in American cultural history from the seventeenth century to the present, touching on representative figures in literature, art, music, and material culture as well as some major interpretations of American cultural history, such as those of Alexis de Tocqueville, Thorstein Veblen, and David Potter. Slide presentations, films, and field trips around Washington are included. Offered irregularly.

**29.215 Social Forces that Shaped America / S 2:2 (3)** The history of race, class, and gender in the United States from the war for independence to the present. The focus is on how these forces existed and continue to exist as intersecting material realities and contributors to the social attitudes held by residents of the United States. Usually offered every term. *Prerequisite for General Education credit:* 76.150 or 29.115.

**29.220 Women in Modern America / S 4:2 (3)** Change and continuity in the experience of American women from the mid-nineteenth century to the present. Social and political movements of special concern to women, including suffrage, birth control, women's liberation, and contemporary antifeminism. A multidisciplinary perspective;

both primary and secondary readings. Usually offered every spring. *Prerequisite for General Education credit:* 53.110 or 73.100. *Note:* not open to students who have taken 29.209 Women in Twentieth Century America.

**29.221 History of England I (3)** Political, social, and cultural development in England to 1689. Parliament, common law, civil war, plague, rebellion, concepts of kingship, and the conflict of church and state. Usually offered every fall.

**29.222 History of England II (3)** Great Britain since 1689. The rise and fall of the British Empire, cabinet government and limited monarchy, working-class politics and the welfare state, and industrialization and mass culture. Usually offered every spring.

**29.225 Russia: Past and Present / A 3:2 (3)** Russia has been termed a "riddle wrapped in a mystery inside an enigma." An examination of the major influences that have shaped Russia helps solve this mystery. Influences include geography, autocracy, social and multi-ethnic composition, economics, relations with the West, and the ideologies of Orthodoxy, Nationalism, and Marxism. Usually offered every spring. *Prerequisite for General Education credit:* 33.105 or 29.120.

**29.230 Early Russian History, 988-1700 (3)** The first state, Kievan Rus, the impact of the Tatar Yoke, and the emergence of Muscovite Russia. Topics include the growth of Tsarist autocracy, the enslavement of the peasantry, the role of the Russian Orthodox church, and Russia's relations with the West. Usually offered alternate years.

**29.231 Imperial Russia, 1700-1917 (3)** Survey of Imperial Russian history with emphasis on the Romanov Tsars, peasantry, growth of industry, cultural developments, emergence of the revolutionary movements, expansion of the state, and foreign policy. Usually offered alternate years.

**29.232 Twentieth Century Russia (3)** The Tsarist heritage, Russian Marxism, the revolutions of 1917, the civil war, the New Economic Policy, rise of Stalin, the industrialization and collectivization of the 1930s, the Second Patriotic War, death of Stalin, the Khrushchev era, the Brezhnev regime, the end of the USSR, and Soviet culture. Usually offered every fall.

**29.235 The West in Crisis, 1900-1945 / S 2:2 (3)** Earlier this century the West experienced world wars, the Great Depression, America's New Deal, and communist and Nazi revolutions and dictatorships. This course shows how crises and wars emerged from a conflicted Western heritage, and how communism, fascism, and the New Deal were responses to problems of modernity and progress emanating from different national histories. Usually offered every fall. *Prerequisite for General Education credit:* 29.100 or 29.110. *Note:* not open to students who have taken 29.104 Twentieth Century World.

**29.238 France since Napoleon (3)** Amid recurring revolutions and military disasters, France has struggled to find a stable form of government. This course investigates political experimentation, social conservatism, and cultural innovation in France since 1815. Topics include the legacy of the French Revolution, the expansion of Paris,

colonial empire, Nazi occupation, and De Gaulle's leadership. Usually offered alternate years.

**29.239 Modern Germany since 1848 (3)** The revolutions of 1848 failed to unify Germany. Bismarck and the Prussian army succeeded. The new Germany produced Prussian militarism, socialism, youth movements, and the unsuccessful Weimar Republic. Hitler's Germany; World War II; Germany divided. Usually offered alternate years.

**29.241 Colonial Latin America (3)** Conquest and change in Indian civilization; imperial politics; race and class; Indian labor and the Black legend; imperial economic relations; imperial reform and revolution. Usually offered every fall.

**29.242 Latin America since Independence (3)** Problems in creating nations; militarism, dictatorship, and democracy; sources of underdevelopment; reform and revolution in the twentieth century. Usually offered every spring.

**29.248 Transformation of the Middle East (3)** The historical development of the modern Middle East, including changes in Muslim society linked to the loss of power and prestige to western influence; the emergence of nationalism; the growth of oil wealth; and the role religion plays in Middle Eastern life. Usually offered every spring and alternate summers.

**29.250 Civilization and Modernization: Asia / 8 3:2 (3)** Compares the great civilizations of China, India, and Japan; their interaction with the West; and their transformation from the nineteenth century. It thoroughly analyzes modernization and why Asian societies changed so differently; why revolutions wracked China and communism triumphed; how Japan emerged as a premier industrial state; and how India balances tradition, modernity, and democracy. Usually offered every spring. *Prerequisite for General Education credit:* 23.150 or 61.185. *Note:* not open to students who have taken 29.250 Modern Asia.

**29.260 To Arms: People and Nations at War / 8 3:2 (3)** War as an enduring historical phenomenon. The causes of war in the past and how wars have been justified by nations and experienced by persons and peoples. Changing attitudes toward war, alternatives to it, and its possible future. Usually offered every term. *Prerequisite for General Education credit:* 29.120 or 33.105. *Note:* not open to students who have taken 29.260 Arms and the Man.

**29.280 Cities: Cradles of Civilization (3)** Urban development from Ur to the present. Emphasis on physical planning, the city as a creative environment, economic development, and the city's role in history. Offered irregularly.

**29.281 The Rise of the American City (3)** The American city's physical and political development from the seventeenth century frontier to the present. Its role in the formation of our society, culture, and economy, with special emphasis on American attitudes towards the city as reflected in housing policy, suburbanization, and in literature, film, and city-planning policy. Offered irregularly.

**29.300 Ancient Studies (3)** Topical courses in ancient history: Greece in the age of Tyrants; Classical Greece; Ancient Sparta; Alexander the Great; the Burden of Success—the Failure of the Roman Republic; Principate to

Patriarchy—the Roman Empire; Causes of War in Antiquity; Major Personalities of Classical Antiquity; Silent Peoples of Antiquity—Women, Children, and Slaves; Espionage in the Ancient World. Meets with 29.600. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**29.318 Nazi Germany (3)** The political, social, and economic conditions that made it possible for Hitler to take power. The nature of Nazi rule. World War II from the Nazi side and the Holocaust from that of the Jews. Meets with 29.618. Usually offered every spring.

**29.320 War and Diplomacy: Napoleon to Bismarck (3)** The course describes and interprets Napoleonic wars and diplomacy; the Congress of Vienna; the Concert of Europe; the revolutions of 1820, 1830, and 1848; the Crimean War; the conflicts of Italian and German nationalism; Bismarck's diplomatic system; imperialism; the partition of Africa; rivalries in Asia; Balkan conflicts; and the roots of World War I. Meets with 29.620. Offered irregularly.

**29.321 War and Peace: Bismarck to Hitler (3)** The two world wars and their backgrounds of revolution and depression are focal points for explaining the origins of wars and the failure of peace in modern civilizations. Specific topics include imperialism and world politics, World War I; peace-making at Versailles; the Great Depression; the rise of the Nazis, Fascists, and Communist Russia and their foreign policies; the German blitzkrieg in World War II; subsequent allied victories; and attempts to create a "brave new world." Meets with 29.621. Offered irregularly.

**29.323 Hungarian History and Civilization (4)** Analysis of Hungarian history, the constraints of the geopolitical situation in Hungary, and Hungary as a cultural, economical, political, and ideological frontline of Europe. Examination of the roots of nationalism, the Austro-Hungarian Empire, the fateful system of peace treaties after World War I. Analysis of East-West dilemmas. Offered only in Budapest. Usually offered every spring.

**29.324 Czech Profile (6)** This interdisciplinary course is designed to acquaint the student with the fundamental aspects of the history, politics and culture of the Czechlands through lectures, readings, screenings and field trips. Examines three key areas of challenge to the new democracy: legal, economic and human. Emphasizing the fundamental changes that need to be made so that the Czech Republic can pass from a half-century of totalitarian regimes to a true democracy. Offered only in Prague. Usually offered every fall.

**29.325 20th Century Central European History (4)** Developments in the politics, economies, cultures, and societies of Central European states during the past century. Topics include: the age of imperialism; the end of the monarchies in Central Europe; politics and culture in the Weimar Republic; the rise of dictatorships and fascism; the Third Reich; World War II and its consequences; the rebuilding of democracy; and the German division. Usually offered every term.

**29.326 European Society in the Nineteenth and Twentieth Centuries (3)** Relationships between traditional social groups and the emergence of new classes, cultural patterns, and aspirations. The effect of altered birth and



death rates, urbanization, technology, education, and other forces stimulating change. New grievances, mass culture, and the growth of alienation. Interest groups, the consumer society, and the "New Europe." Meets with 29.626. Offered irregularly.

**29.327 Twentieth Century Europe (3)** In this century Europe has experienced two major wars, a wave of communist revolution, a violent reaction in the form of fascism, and the horror of mass extermination. Yet Europe today is quite prosperous, and there are better links between the Western countries and their communist counterparts than could be imagined two decades ago. There is something in Europe's past that gives it a certain resilience. Meets with 29.627. Usually offered alternate years.

**29.329 European Thought and Ideology (3)** Rotating topical and chronological studies. Examples are European Communism and European Liberalism. Meets with 29.629. Offered irregularly.

**29.331 Modern Revolutions (3)** The theory, patterns, and practice of twentieth century revolutions, and the revolutionary tradition stemming from the Enlightenment, the French Revolution, and Marxism. Detailed treatment of the Russian, Nazi, Chinese, Vietnamese, and Cuban revolutions, and consideration of the effects of revolutions and the revolutionary potential of modern industrial societies. Meets with 29.631. Usually offered alternate years.

**29.332 Contemporary Historical Studies (3)** Rotating topics, including Democracy and Totalitarianism; Imperialism, Racism, and the Third World; Psychohistory; Political Assassinations in Europe; Death in History; Madness in History; History of Sexuality; Women in European History. Meets with 29.632. May be repeated for credit in the same term; topic must be different. Usually offered every term.

**29.333 Tudor-Stuart England (3)** England in the sixteenth and seventeenth centuries. Topics include the Protestant Reformation in England, the conflict between King and Parliament, the Civil War, Puritanism, and the Glorious Revolution. Meets with 29.633. Offered irregularly.

**29.334 Victorian England (3)** Examines the many threats to traditional beliefs and social patterns that emerged in the nineteenth century. Subjects include the effect of Darwinism on religion, the emergence of working-class politics, the campaign for female suffrage, discontent in Ireland, and the growth of empire. Meets with 29.634. Offered irregularly.

**29.335 Twentieth Century England (3)** Has England become a third-rate power? The course analyzes England's changing status in the twentieth century: the rise of the Labour Party, the depression, World War II, loss of empire, and contemporary British culture. Meets with 29.635. Offered irregularly.

**29.336 History of Ireland (3)** Survey of Irish history from the Gaelic invasions to the present, focusing on the development of Irish cultural and national identity. Meets with 29.636. Offered irregularly.

**29.337 British Studies (3)** Rotating topics, including Hanoverian England, Edwardian England, the British Working-Class Experience, Popular Culture in Modern

Britain, and Popular Rebels in Britain. Meets with 29.637. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**29.340 Latin American Studies (3)** Rotating topics, including Diplomatic History of Latin America, Twentieth Century Diplomacy of the Great Powers of Latin America, and Latin American Intellectual History. Meets with 29.640. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**29.342 History of Chile (4)** Emphasis on the independence movement, nineteenth century wars with neighboring countries, growth of the mining and agricultural industries, and the creation of one of Latin America's largest middle classes. Examines the social mores and attitudes of the Chilean people and the roles of the Church, the family, and social institutions. Offered only in Santiago. Usually offered every spring.

**29.345 Russian Studies (3)** Rotating topics, including Russian Social History; Russian Revolutionary Tradition; USSR: Dissidents and Dictators; Russia and the West, 1472-1900; Russia in War and Revolution, 1855-1917; Twentieth Century Russian Diplomacy; Lord and Peasant; and Nineteenth Century Russian Literature and Society. Meets with 29.645. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**29.347 Asian Studies (3)** Topical courses in Asian history, including: China: from the Manchus to Mao; History of Japan; and India and the West. Meets with 29.647. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**29.350 Colonial America (3)** 1492 to 1763. The founding and development of England's North American colonies, emphasizing the original impulses and methods of colonization; Indian peoples and conflict; non-English immigration; the genesis and African background of the slave trade and slavery; and the creation of a dominant English culture in an ethnically and racially diverse society. Meets with 29.650. Usually offered alternate years.

**29.351 Era of the Revolution and Constitution (3)** The political and social history of the American Revolution, emphasizing such topics as the genesis of the revolutionary conflict, the revolution as a "republican revolution," the revolution's ideological and social results and their effect abroad, and the formation of the Constitution. Meets with 29.651. Usually offered alternate years.

**29.352 The Era of the New Republic, 1789-1850 (3)** The new republic's political consolidation during its first critical decades; its physical, economic, and political transformation by continental expansion; the transportation and industrial revolutions and the creation of a mass democracy; and the first confrontations over slavery in 1832-33 and 1848-50. Meets with 29.652. Usually offered alternate years.

**29.353 Civil War and Reconstruction (3)** Chronological coverage from the Compromise of 1850 to the final withdrawal of federal troops from the South in 1877. Topics include antebellum reform, sectional conflict, black slavery, secession, and postwar racial and political problems. Political and social issues are emphasized, rather than a

narrative of battles and skirmishes. Meets with 29.653. Usually offered alternate years.

**29.354 The South since Reconstruction (3)** The theme is the South's struggle with the issues of integration, separation, and self-definition since the Civil War. Reconstruction and redemption, race relations, violence, the rise and fall of the "Solid South," and the "New South" of Jimmy Carter. Meets with 29.654. Usually offered alternate years.

**29.355 Emergence of Modern America, 1877-1920 (3)** The course considers themes in the modernization of America: the rise of corporations and cities, the influx of immigrants from southern and eastern Europe, and the advent of the new diplomacy and imperialism. Also studied: populism and progressivism. Meets with 29.655. Usually offered alternate years.

**29.356 Twentieth Century America (3)** Life in the twentieth century is different from all other periods of our past. To understand why requires an examination of the explosion of science and technology, the growth of government, America's increasing involvement in the world, the multiplication of protest and liberation movements, the new politics, and neo-Keynesian economics. Meets with 29.656. Offered irregularly.

**29.357 America between the Wars, 1919-1941 (3)** Following a decade of stability and prosperity, the dislocations caused by the Great Depression disrupted the lives and shook the institutions of the American people, leading to unprecedented political and cultural experimentation. Emphasizing both the contrasts and continuities between the 1920s and 1930s, the course investigates the patterns of political, social, cultural, economic, and intellectual life during the interwar period, with special emphasis on the tensions between radical and conservative tendencies. Meets with 29.657. Offered irregularly.

**29.360 U.S. Foreign Relations, 1774-1914 (3)** The history of United States diplomacy (and other forms of international relations) from the Revolution to the eve of World War I. Focus on policy making and makers; on such long-term issues such as unilateralism, imperialism, and neutrality; and on economics and ideology. Meets with 29.660. Usually offered alternate falls.

**29.361 U.S. Foreign Relations since 1914 (3)** The history of United States diplomacy (and other forms of international relations) since the onset of World War I. Focus on policy making and makers; on such long-term issues as isolationism, go-it-alone unilateralism, and interventionism; on ideology, economics, and related domestic politics; and on growing U.S. attention to military and national security matters. Meets with 29.661. Usually offered every spring.

**29.362 Studies in War, Peace, Diplomacy, and Power (3)** Rotating topics, including World War II: the world experience; World War II: the American experience; the Cold War, Korea, and Vietnam; the Vietnam War; American anti-communism; gender and power; war and opposition to war in film and fiction; the early Cold War; imperialism and modernization in Asia; and European world politics since 1945. May be repeated for credit within the same term: topic must be different. Meets with 29.662. Offered irregularly.

**29.364 Twentieth Century United States Response to Revolution (3)** Every twentieth century president has been compelled to respond to a modern revolutionary movement. This course focuses on American foreign policy in a revolutionary world, including consideration of the perception of revolution in Washington; revolutions in Mexico, Russia, China, Cuba, and Iran; and "Wars of National Liberation." Meets with 29.664. Offered irregularly.

**29.366 Presidents of the United States I (3)** American presidents from Washington through Andrew Johnson. The course concentrates on how major and minor presidents have used presidential power to deal with national problems; how they conceived of the presidency; and the roles of personality, political values, and constitutional and political constraints. Meets with 29.666. Offered irregularly.

**29.368 Great Ideas in American History: American Thought from Puritanism to the Counter-Culture (3)** The course examines the works of great American thinkers from the seventeenth century to the present, including Roger Williams, Jonathan Edwards, Jefferson, John C. Calhoun, Thoreau, Melville, Sumner, Henry Adams, William James, B.F. Skinner, and Lewis Mumford. They are placed in their philosophical, religious, and cultural contexts. Meets with 29.668. Offered irregularly.

**29.371 Ideology, Culture, and American Politics (3)** How have American political leaders justified their objectives? How have popular beliefs and attitudes been reflected in the American political system? This course, concentrating on the twentieth century, explores the relationship between American political life on the one hand and ideas and popular persuasions on the other. Meets with 29.671. Offered irregularly.

**29.372 African American Women in the U.S. (3)** Focuses on the contribution and presence of African American women in the U.S. from the eighteenth to the twentieth centuries. Particular attention to black women's social, political, and community activities, including the anti-slavery societies, the nineteenth-century women's club movement, and sororities, up through the more recent civil rights and women's rights movements. The issues of race, sex and class will be highlighted in context throughout the course. Meets with 29.672. Usually offered alternate springs.

**29.374 Work and Workers (3)** The history of work over the last 200 years. Topics include the rise of the modern corporation, technology, and the workplace; the changing "work ethic"; labor unions and labor politics; and industrial relations in the post-industrial economy. Meets with 29.674. Offered irregularly.

**29.375 The Radical Tradition in the United States (3)** The history of the left and radical social movements of workers, farmers, women, and blacks since the 1770s. Meets with 29.675. Offered irregularly.

**29.376 Americans and their Environment (3)** Focuses on the ideas, politics, and social structures that have influenced Americans in their relationship with their natural environment. Course includes such topics as how Americans have viewed and valued wilderness, their treat-

ment of land, and their use of natural resources in the context of U.S. expansion and industrial development. Meets with 29.676. Usually offered alternate springs.

#### **29.390 Independent Reading Course in History (1-6)**

**29.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**29.480 Major Seminar I (3)** Methods and materials of historical research and writing, with emphasis on resources in the Washington area. Students design and outline research topics based in part on the use of primary sources. Required of all history majors. Normally followed by 29.481. Usually offered every fall. *Prerequisite:* senior or second-semester junior standing.

**29.481 Major Seminar II (3)** Completion of a substantial research paper based in part on the use of primary source materials. Required of all history majors. Usually offered every spring. *Prerequisite:* senior standing and 29.480.

#### **29.490 Independent Study Project in History (1-6)**

#### **29.491 Internship (1-6)**

### **Graduate and Advanced Undergraduate Courses**

**29.500 Studies in History (3)** Rotating topics, including Twentieth Century European Studies, Nineteenth and Twentieth Century Russian and Soviet Studies, English and British Studies, Ancient Studies, American Political Studies, American Social Studies, American Cultural Studies, American Diplomatic Studies, and American Military Studies. Usually offered every term. *Prerequisite:* advanced undergraduate or graduate standing.

#### **29.590 Independent Reading Course in History (1-6)**

### **Graduate Courses**

**Note:** Courses numbered 29.600 through 29.684 generally meet with courses at the 300 level. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

**29.600 Ancient Studies (3)** Topical courses in ancient history: Greece in the Age of Tyrants; Classical Greece; Ancient Sparta; Alexander the Great; the Burden of Success—the Failure of the Roman Republic; Principate to Patriarchy—the Roman Empire; Causes of War in Antiquity; Major Personalities of Classical Antiquity; Silent Peoples of Antiquity—Women, Children, and Slaves; and Espionage in the Ancient World. Meets with 29.300. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**29.618 Nazi Germany (3)** The political, social, and economic conditions that made it possible for Hitler to take power. The nature of Nazi rule. World War II from the Nazi side and the Holocaust from that of the Jews. Meets with 29.318. Usually offered every spring.

**29.620 War and Diplomacy: Napoleon to Bismarck (3)** The course describes and interprets Napoleonic wars and diplomacy; the Congress of Vienna; the Concert of Europe; the revolutions of 1820, 1830, and 1848; the Crimean War; the conflicts of Italian and German nationalism; Bismarck's diplomatic system; Imperialism; the partition

of Africa; rivalries in Asia; Balkan conflicts; and the roots of World War I. Meets with 29.320. Offered irregularly.

**29.621 War and Peace: Bismarck to Hitler (3)** The two world wars and their backgrounds of revolution and depression are focal points for explaining the origins of wars and the failure of peace in modern civilizations. Specific topics include Imperialism and world politics, World War I; peace-making at Versailles; the Great Depression; the rise of the Nazis, Fascists, and Communist Russia and their foreign policies; the German blitzkrieg in World War II; subsequent allied victories; and attempts to create a "brave new world." Meets with 29.321. Offered irregularly.

**29.626 European Society in the Nineteenth and Twentieth Centuries (3)** Relationships between traditional social groups and the emergence of new classes, cultural patterns, and aspirations. The effect of altered birth and death rates, urbanization, technology, education, and other forces stimulating change. New grievances, mass culture, and the growth of alienation. Interest groups, the consumer society, and the "new Europe." Meets with 29.326. Offered irregularly.

**29.627 Twentieth Century Europe (3)** In this century Europe has experienced two major wars, a wave of communist revolution, a violent reaction in the form of fascism, and the horror of mass extermination. Yet Europe today is quite prosperous, and there are better links between the Western countries and their communist counterparts than could be imagined two decades ago. There is something in Europe's past that gives it a certain resilience. Meets with 29.327. Usually offered alternate years.

**29.629 European Thought and Ideology (3)** Rotating topical and chronological studies. Examples are European Communism and European Liberalism. Meets with 29.329. Offered irregularly.

**29.631 Modern Revolutions (3)** The theory, patterns, and practice of twentieth century revolutions, and the revolutionary tradition stemming from the Enlightenment, French Revolution, and Marxism. Detailed treatment of the Russian, Nazi, Chinese, Vietnamese, and Cuban revolutions, and consideration of the effects of revolutions and the revolutionary potential of modern industrial societies. Meets with 29.331. Usually offered alternate years.

**29.632 Contemporary Historical Studies (3)** Rotating topics, including Democracy and Totalitarianism; Imperialism, Racism, and the Third World; Psychohistory; Political Assassinations in Europe; Death in History; Madness in History; History of Sexuality; Women in European History. May be repeated for credit in the same term; topic must be different. Meets with 29.332. Offered irregularly.

**29.633 Tudor-Stuart England (3)** England in the sixteenth and seventeenth centuries. Topics include the Protestant Reformation in England, the conflict between King and Parliament, the Civil War, Puritanism, and the Glorious Revolution. Meets with 29.333. Offered irregularly.

**29.634 Victorian England (3)** Examines the many threats to traditional beliefs and social patterns that emerged in the nineteenth century. Subjects include the effect of Darwinism on religion, the emergence of working-class politics, the campaign for female suffrage, discontent

in Ireland, and the growth of empire. Meets with 29.334. Offered irregularly.

**29.635 Twentieth Century England (3)** Has England become a third-rate power? The course analyzes England's changing status in the twentieth century: the rise of the Labour Party, the depression, World War II, loss of empire, and contemporary British culture. Meets with 29.335. Offered irregularly.

**29.636 History of Ireland (3)** Survey of Irish history from the Gaelic invasions to the present, focusing on the development of Irish cultural and national identity. Meets with 29.336. Offered irregularly.

**29.637 British Studies (3)** Rotating topics, including Hanoverian England, Edwardian England, the British Working-Class Experience, Popular Culture in Modern Britain, and Popular Rebels in Britain. Meets with 29.337. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**29.640 Latin American Studies (3)** Rotating topics, including Diplomatic History of Latin America, Twentieth Century Diplomacy of the Great Powers of Latin America, and Latin American Intellectual History. Meets with 29.340. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**29.645 Russian Studies (3)** Rotating topics, including Russian Social History; Russian Revolutionary Tradition; USSR: Dissidents and Dictators; Russia and the West, 1472-1900; Russia in War and Revolution, 1855-1917; Twentieth Century Russian Diplomacy; Lord and Peasant; and Nineteenth Century Russian Literature and Society. Meets with 29.345. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**29.647 Asian Studies (3)** Topical courses in Asian history, including: China: from the Manchus to Mao; History of Japan; and India and the West. Meets with 29.347. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**29.650 Colonial America (3)** 1492 to 1763. The founding and development of England's North American colonies, emphasizing the original impulses and methods of colonization; Indian peoples and conflict; non-English immigration; the genesis and African background of the slave trade and slavery; and the creation of a dominant English culture in an ethnically and racially diverse society. Meets with 29.350. Usually offered alternate years.

**29.651 Era of the Revolution and Constitution (3)** The political and social history of the American Revolution, emphasizing such topics as the genesis of the revolutionary conflict, the revolution as a "republican revolution," the revolution's ideological and social results and their effect abroad, and the formation of the Constitution. Meets with 29.351. Usually offered alternate years.

**29.652 The Era of the New Republic, 1789-1850 (3)** The new republic's political consolidation during its first critical decades; its physical, economic, and political transformation by continental expansion; the transportation and industrial revolutions and the creation of a mass democracy; and the first confrontations over slavery in

1832-1833 and 1848-1850. Meets with 29.352. Usually offered alternate years.

**29.653 Civil War and Reconstruction (3)** Chronological coverage from the Compromise of 1850 to the final withdrawal of federal troops from the South in 1877. Topics include antebellum reform, sectional conflict, black slavery, secession, and postwar racial and political problems. Political and social issues are emphasized, rather than a narrative of battles and skirmishes. Meets with 29.353. Usually offered alternate years.

**29.654 The South since Reconstruction (3)** The theme is the South's struggle with the issues of integration, separation, and self-definition since the Civil War. Reconstruction and redemption, race relations, violence, the rise and fall of the "Solid South," and the "New South" of Jimmy Carter. Meets with 29.354. Usually offered alternate years.

**29.655 Emergence of Modern America, 1877-1920 (3)** The course considers themes in the modernization of America: the rise of corporations and cities, the influx of immigrants from southern and eastern Europe, and the advent of the new diplomacy and imperialism. Populism and progressivism. Meets with 29.355. Usually offered alternate years.

**29.656 Twentieth Century America (3)** Life in the twentieth century is different from all other periods of our past. To understand why requires an examination of the explosion of science and technology, the growth of government, America's increasing involvement in the world, the multiplication of protest and liberation movements, the new politics, and neo-Keynesian economics. Meets with 29.356. Offered irregularly.

**29.657 America between the Wars, 1919-1941 (3)** Following a decade of stability and prosperity, the dislocations caused by the Great Depression disrupted the lives and shook the institutions of the American people, leading to unprecedented political and cultural experimentation. Emphasizing both the contrasts and continuities between the 1920s and 1930s, the course investigates the patterns of political, social, cultural, economic, and intellectual life during the interwar period, with special emphasis on the tensions between radical and conservative tendencies. Meets with 29.357. Offered irregularly.

**29.660 U.S. Foreign Relations, 1774-1914 (3)** The history of United States diplomacy (and other forms of international relations) from the Revolution to the eve of World War I. Focus on policy making and makers; on such long-term issues such as unilateralism, imperialism, and neutrality; and on economics and ideology. Meets with 29.360. Usually offered alternate falls.

**29.661 U.S. Foreign Relations since 1914 (3)** The history of United States diplomacy (and other forms of international relations) since the onset of World War I. Focus on policy making and makers; on such long-term issues as isolationism, go-it-alone unilateralism, and interventionism; on ideology, economics, and related domestic politics; and on growing U.S. attention to military and national security matters. Meets with 29.361. Usually offered every spring.

**29.662 Studies in War, Peace, Diplomacy, and Power** (3) Rotating topics, including World War II: the world experience; World War II: the American experience; the Cold War, Korea, and Vietnam; the Vietnam War; American anti-communism; gender and power; war and opposition to war in film and fiction; the early Cold War; imperialism and modernization in Asia; and European world politics since 1945. May be repeated for credit within the same term: topic must be different. Meets with 29.362. Offered irregularly.

**29.664 Twentieth Century United States Response to Revolution** (3) Every twentieth century president has been compelled to respond to a modern revolutionary movement. This course focuses on American foreign policy in a revolutionary world, including consideration of the perception of revolution in Washington; revolutions in Mexico, Russia, China, Cuba, and Iran; and "Wars of National Liberation." Meets with 29.364. Offered irregularly.

**29.666 Presidents of the United States I** (3) American presidents from Washington through Andrew Johnson. The course concentrates on how major and minor presidents have used presidential power to deal with national problems; how they conceived of the presidency; and the roles of personality, political values, and constitutional and political constraints. Meets with 29.366. Offered irregularly.

**29.668 Great Ideas in American History: American Thought from Puritanism to the Counter-Culture** (3) The course examines the works of great American thinkers from the seventeenth century to the present, including George Williams, Jonathan Edwards, Jefferson, John C. Calhoun, Thoreau, Melville, Sumner, Henry Adams, William James, B.F. Skinner, and Lewis Mumford. They are placed in their philosophical, religious, and cultural contexts. Meets with 29.368. Offered irregularly.

**29.671 Ideology, Culture, and American Politics** (3) How have American political leaders justified their objectives? How have popular beliefs and attitudes been reflected in the American political system? This course, concentrating on the twentieth century, explores the relationship between American political life on the one hand and ideas and popular persuasions on the other. Meets with 29.371. Offered irregularly. *Prerequisite:* graduate standing.

**29.672 African American Women in the U.S.** (3) Focuses on the contribution and presence of African American women in the U.S. from the eighteenth to the twentieth centuries. Particular attention to black women's social, political, and community activities, including the anti-slavery societies, the nineteenth-century women's club movement, and sororities, up through the more recent civil rights and women's rights movements. The issues of race, sex and class will be highlighted in context throughout the course. Meets with 29.372. Usually offered alternate springs.

**29.674 Work and Workers** (3) The history of work over the last 200 years. Topics include the rise of the modern corporation, technology, and the workplace; the changing "work ethic"; labor unions and labor politics; and industrial relations in the post-Industrial economy. Meets with

29.374. Offered irregularly. *Prerequisite:* graduate standing.

**29.675 The Radical Tradition in the United States** (3) The history of the left and the radical social movements of workers, farmers, women, and blacks since the 1770s. Meets with 29.375. Offered irregularly. *Prerequisite:* graduate standing.

**29.676 Americans and their Environment** (3) Focuses on the ideas, politics, and social structures that have influenced Americans in their relationship with their natural environment. Course includes such topics as how Americans have viewed and valued wilderness, their treatment of land, and their use of natural resources in the context of U.S. expansion and industrial development. Meets with 29.376. Usually offered alternate springs.

**29.680 The Origins of Constitutional Government in the U.S., 1763-1803** (6) The foundations, principles, framing, adoption, and implementation of the Constitution and Bill of Rights through study of their intellectual, social, political, and cultural origins and context. Emphasizes 18th century roots of U.S. constitutional government. Students study the *Federalist Papers*, Madison's *Notes*, Anti-Federalist writings, other contemporary and primary texts, and current scholarship. Usually offered every summer. *Note:* open only to fellows of the James Madison Memorial Fellowship Foundation.

**29.680 Independent Study Project in History** (1-6)

**29.691 Internship** (1-6)

**29.692 Cooperative Education Field Experience** (3-6) See description under Cooperative Education in this publication.

**29.720 Colloquium in Modern European History since 1789 I** (3) Covers issues in European history since 1789. Primary emphasis is on social, economic, cultural, and intellectual subjects and their historiography. The colloquium assumes familiarity with the basic events in these areas. Usually offered alternate falls.

**29.721 Colloquium in Modern European History since 1789 II** (3) Covers issues in European history since 1789. Primary emphasis is on political, diplomatic, and military subjects and their historiography. The colloquium assumes familiarity with the basic events in these areas. Usually offered alternate falls.

**29.727 Colloquium in United States History I: to 1865** (3) The course assumes the student's familiarity with factual data and concentrates on analyzing important historiographic disputes and developments in U.S. history to the end of the Civil War. Usually offered every fall.

**29.728 Colloquium in United States History II: since 1865** (3) The course assumes the student's familiarity with factual data and concentrates on analyzing important historiographic disputes and developments in U.S. history from 1865 to the present. Usually offered every spring.

**29.751 Research Seminar in European History** (3) Identification and development of research topics. Sources and their evaluation. Research techniques and problems. Writing and argumentation. Students research and write substantial papers based largely on primary sources.

Some Ph.D. candidates use the course to develop dissertation proposals. Usually offered every spring.

**29.752 Research Seminar in United States History (3)** Identification and development of research topics. Sources and their evaluation. Research techniques and problems. Writing and argumentation. Students research and write substantial papers based largely on primary sources. Some Ph.D. candidates use the course to develop dissertation proposals. Usually offered every spring.

**29.797 Master's Thesis Seminar (1-6)** Usually offered every term.

**29.799 Doctoral Dissertation Seminar (1-12)** Usually offered every term.

## International Service

### Undergraduate Courses

**33.105 World Politics / S 3:1 (3)** Patterns of conflict and cooperation in a rapidly-changing world. The primary focus is on concepts and theories which provide a framework for analyzing and understanding contemporary issues. The course examines the behavior of states and other international actors, seeks to explain foreign policies, and identifies the main characteristics of interaction among states. *Note:* not open to students who have taken 33.202 World Politics. Usually offered every term.

**33.110 Beyond Sovereignty / S 3:1 (3)** The role of the sovereign state in a world of complex interdependence and the tension between nationalism and the necessity of cooperative global problem solving. Is the state becoming obsolete? Is global policy possible in such areas as environmental protection, resource management, and containment of the destructiveness of modern weapons? Usually offered every term.

**33.140 Cross-Cultural Communication / S 3:1 (3)** This course examines the impact of culture on perception, thought patterns, values, and beliefs in order to better understand the behavior of individuals in different cultures. Specific concerns include cross-cultural conflict and negotiation; the relationship between dominant cultures and subcultures; the issues of race, gender, and class in various societies; and the dynamics of cross-cultural adjustment. Usually offered every term.

**33.151 Western Tradition I (3)** Origins in Judaism, Greek philosophy, and Roman law and administration. Phenomenon of growth and stagnation in classical, Islamic, and medieval Christian civilization. Millennialism and change. Usually offered every fall.

**33.152 Western Tradition II (3)** Crisis of religious man, birth of scientific civilization, rationalism, secularization, romantic reaction, and the roots of totalitarianism of the left and right. Usually offered every spring.

**33.161 Civilizations of Asia (3)** Comparative study of the major historical, political, and cultural traditions of Chinese, Japanese, Indian, and Southeast Asian peoples. Usually offered every term.

**33.206 Introduction to International Relations Research (3)** Introduction to scientific method, data gather-

ing, research design, statistical analysis, and computer applications for international relations and comparative studies research. The course is designed for the beginning student and employs a hands-on approach. The course also develops the analytical skills students need as active consumers of research findings. Applications are geared to research projects to be encountered in subsequent SIS courses. Usually offered every term.

**33.210 Human Geography: Peoples, Places, and Cultures / S 3:2 (3)** A topical investigation of the interrelationships between human institutions and their surrounding environment. This course provides a systematic spatial perspective to the interaction between physical, cultural, ecological, economic, and political systems on both local and global scales. Usually offered every term. *Prerequisite for General Education credit:* 19.110 or 03.110. *Note:* not open to students who have taken 33.296 Selected Topics: Human Geography.

**33.215 Competition in an Interdependent World / S 3:2 (3)** Economic competitiveness is a major contemporary issue, not only for the major powers, but also for newly industrializing countries and for developing nations. The forces affecting international competition and competitiveness are discussed through an examination of both domestic issues (debt, deficit, innovation, trade, education) and international issues, both political and economic. Usually offered every term. *Prerequisite for General Education credit:* 53.130 or 33.110.

**33.245 The World of Islam / A 3:2 (3)** This course brings to life the "inner dynamic" of Islamic culture and provides an inside look at the workings of Islamic society—a society seen as a whole with its own characteristic inner force and propellant. It introduces students to original readings illustrating the Islamic paradigm and discusses the complex relationship among reform, renewal, and fundamentalism stemming from this paradigm. Usually offered every fall. *Prerequisite for General Education credit:* 03.110 or 61.185.

**33.250 Civilizations of Africa / A 3:2 (3)** By concentrating on African societies and states, ancient and modern, the course aims to create a greater understanding of, and empathy with, the Africans: the diversity, history, culture, accomplishments, and problems of the people and their continent; and the interaction of their culture with Islam and the West. Usually offered every term. *Prerequisite for General Education credit:* 19.110 or 23.150 or 65.110. *Note:* not open to students who have taken 33.165 Civilizations of Africa.

**33.255 Japan and the United States / A 3:2 (3)** A multidisciplinary introduction to Japan and Japanese life which explores the history, culture, social structure, literature, art, politics, economics, and foreign relations of this important country and invites contrasts with the United States. Usually offered every term. *Prerequisite for General Education credit:* 33.140 or 53.130 or 61.185. *Note:* not open to students who have taken 00.200 or 33.296 Japan and America.

**33.258 Contemporary Russia / S (3)** Russia's contemporary political culture and its historical, economic, geographic, and social roots. Usually offered every fall.

**33.259 Comparative Change in East Europe (3)** A comparative survey of changes occurring in Post-Cold War East Europe including Albania, Bulgaria, Czechoslovakia, Hungary, Poland, Romania, and Yugoslavia. A systematic examination of the emerging new political cultures. Usually offered every spring.

**33.264 Contemporary Middle East /S (3)** The Middle East's contemporary political culture and its historical, economic, geographic, and social roots, with special attention to the Arab world. Usually offered every term.

**33.265 Contemporary Africa /S (3)** Africa's contemporary political culture and its historical, economic, geographic, and social roots, with special attention to Africa south of the Sahara. Usually offered every term.

**33.276 Contemporary Latin America (3)** Major political, social, and economic change in Latin America, its foundations, factors accelerating and impeding it, and prospects and trends. Usually offered every term.

**33.301 Theories of International Politics (3)** Major trends in recent thought, including systematic and behavioral modes of analysis. Problems of explanation and theory building in social sciences with special reference to international studies. Usually offered every fall.

**33.305 Political Concepts (3)** Interaction of normative and empirical theory. Such concepts as politics, power, authority, legitimacy, the state, nationalism, and conflict, and their applicability to international and comparative politics and policy analysis. Subject matter is of advanced level. Usually offered every spring. *Prerequisite:* 33.105 World Politics or equivalent. *Note:* not open to students who have taken 33.100 Political Concepts.

**33.307 Quantitative Approaches to International Politics (3)** Study of selected applications of quantitative measurement in international relations research. Usually offered every term. *Prerequisite:* 33.206 or 42.202 or equivalent.

**33.308 Introduction to Peace and Conflict Resolution (3)** Conflict and violence, as well as cooperation and peaceful change, within and among individuals, cultures, and systems. Effective means for diminishing the level of violence, for increasing the potential for non-exploitative cooperative coexistence, and for collaborative conflict resolution are explored. Usually offered every term. *Note:* not open to students who have taken 33.396/.696 Selected Topics: Introduction to Peace and Conflict Resolution.

**33.311, 33.312 Santiago Semester I 3:2 (4), II (4) Contemporary Chile: Politics, Economics and Society** This two-part seminar focuses on the changing nature of Chile and its move from military to civilian government and the implications of this on policy and society. Topics include: civil-military relations, issues of professional and political armed forces; human rights and the search for justice and reconciliation; political parties and coalitions; economic development; "sharing the wealth;" the Green Movement; the role of women in a changing society; the newly independent media and the search for truth; and the Catholic Church. Usually offered every spring. *Prerequisite for General Education credit:* 65.110.

**33.314 Santiago Semester Internship (4)** With a strong working knowledge of Spanish, students may enroll in a two-day-per-week internship. Placements include banks, multi-national corporations, research organizations, the media, and educational institutions. Academic oversight of the internship by the resident academic director includes class discussions and written assignments. Usually offered every spring.

**33.318 Liberalism and Its Critics /S (3)** Liberalism as a central tradition of the West. From its mid-seventeenth century origins, liberalism has encountered a series of problems: of the individual, exchange, the public, limits, power, welfare and the self. Close reading and discussion of exemplary texts by liberals in response to these problems and by critics of liberalism. *Note:* not open to students who have taken 33.200 Liberalism and Its Critics.

**33.321 International Law (3)** Institutions of international politics, with emphasis on the nature and function of international law. Usually offered every term.

**33.322 Human Rights (3)** This course examines human rights as a global concern in terms of the following: the role of human rights in foreign policy; cultural and ideological perspectives; regional human rights systems; world resources, hunger, poverty, and refugees; and the effects of modernization and development on human rights. Usually offered every spring.

**33.325 International Organization (3)** Institutions of international politics, with emphasis on the nature and functions of international organization. Usually offered every term.

**33.326 Between Peace and War /S (3)** The politics of conflict, strategies of deterrence, and crisis management. Case studies and simulations are used to examine the perennial issue of state security, with emphasis on the problematic character of military means of achieving security in the nuclear age. Usually offered every term. *Note:* not open to students who have taken 33.120 Between Peace and War.

**33.328 Approaches to Peacemaking (3)** The theory, history, and methodologies of four approaches to peacemaking: 1) peace through nonviolent action for social change, 2) peace through world order (laws and organizations), 3) peace through collaborative problem solving, and 4) peace through personal and social transformation. Usually offered every fall. *Recommended prerequisite:* 33.308. *Note:* not open to students who have taken 33.519 Special Studies in International Politics: Peace Paradigms.

**33.331 An Overview of the European Community (3)** The course helps students find their way around the Community of the Twelve and its institutions and to comprehend its historical roots, the variety of its political scenery, the unity of its different cultures, the strength of its economy—in brief to become aware of the European identity. Usually offered every term.

**33.332, 33.333 Budapest Seminar I (4), II (4) Hungary, Eastern Europe and Russia in Transformation** This two-part seminar emphasizes the changes in Hungary and those taking place in Eastern Europe and Russia. Students meet with politicians and decision-makers to discuss political and cultural diversity in East European

countries and examine different paths to liberalization from the reform tradition of Hungary to Solidarity in Poland. The second part of the seminar continues the same format with analysis of the latest events occurring in Eastern Europe. Usually offered every spring.

**33.335 Budapest Semester Internship (4)** Students may enroll in a two-day-per-week internship for direct involvement in international organizations. Placements include: multinational corporations, political or research institutions, media, and educational organizations. Placements are matched to complement the student's curriculum, major objectives, minor objectives, or serve as an elective internship. Students engage in activities such as observing the organizational structure, researching projects assigned to them, and gaining hands-on experience in an organizational setting. Usually offered every spring.

**33.337 International Development /S (3)** An introduction to international development; this course is divided into three sections: development theories, development assistance, and structural adjustment. In each section a variety of approaches are analyzed, and students are expected to be able to discuss the basic assumptions of each approach and the policy prescriptions that would logically follow from these assumptions. Usually offered every term. *Note:* not open to students who have taken 33.230 International Development.

**33.340 Foundations of International Communication (3)** The sociology, psychology, and anthropology relevant to the transmission of ideas, perceptions, and feelings between and within cultures. Communication models, perceptions theories, cultural contacts, technological change, public opinion, propaganda, and logic system. Usually offered every term.

**33.341 Intercultural Communication (3)** The primary focus of this course is on the dynamics of intercultural communication as it relates to interpersonal interactions across cultural boundaries. The course looks at cultural differences in verbal and nonverbal communication patterns, interpersonal relationship development, and intercultural adaptation processes. Usually offered every term.

**33.349 Selected Topics in International Communication (3)** Cross-cultural problems of communication, research techniques in international communication, and the role of the media in cross-cultural communication. May be repeated for credit in the same term; topic must be different. Usually offered every term.

**33.351 Culture and Society: Marx to Weber (3)** Begins with Hegel and Marx and ends with the sociopolitical alterations after 1880, reflected in the sociology of Max Weber. Emphasis also includes Spencer, Comte, J. S. Mill, Gumplowicz, Gabriel Tarde, and Durkheim, positivism, neo-Kantianism, and early Marxist-Leninism, particularly materialism and empirio-criticism. Contrapuntal themes: naturalism, Impressionism, German expressionism, and Italian futurism. Usually offered every fall. *Prerequisite:* courses in sociology, literature, and philosophy recommended.

**33.352 Culture and Society: Freud to Sartre (3)** The beginnings of psychoanalysis; Nietzsche and antirationalism; Sorel and myth; the role of models, fictions, and ideal

types. The shift from liberal to antiliberal political systems: Soviet Russia and the arts; dadaism and surrealism. Spengler and metahistory; intellectuals and communism; the varieties of fascism. The generation of the absurd: Camus and Sartre. The phenomenon of National Socialism and its relation to cultural derangement. Usually offered every spring. *Prerequisite:* courses in philosophy, sociology, and European history are recommended.

**33.355 The Relations of West European Nations (3)** World War II diplomacy as it affected Europe's postwar position, and the origins and development of the cold war in Europe. French and West German foreign policy and East-West diplomacy relating to Germany from World War II to the present; European unity with emphasis on the European Community; U.S.-European relations and issues of European security. Usually offered every spring.

**33.359 Russia and Central Eurasia in World Affairs (3)** Analysis of relations between the Commonwealth of Independent States and its border areas. The historical and current place of Russia and the Commonwealth in world affairs. Usually offered every spring.

**33.364 Modern Islam (3)** The nineteenth century Islamic reform movements in the Middle East and North Africa and the twentieth century neofundamentalist militant movements. The conflict between these movements and the forms of secular nationalism that developed during the same period. The impact of the Islamic movements on societies oriented toward Westernization and nationalism. Usually offered every spring. *Prerequisite:* 33.164 Islamic Civilization or 33.245.

**33.365 Arab-Israeli Relations (3)** A survey of Arab-Israeli relations from their origins to the present. Includes an account of Zionism and Palestinian nationalism, the history of the British mandate, the Arab-Israeli wars, the involvement of external powers, and the quest for peace. The emphasis is on conflict resolution. Designed as a sequel to 33.264, although this course is not a prerequisite. Usually offered every spring. *Prerequisite:* 33.264 recommended.

**33.366 Asian Power Rivalries (3)** International politics from Asian perspectives, with particular attention to complex relationships between China, the Soviet Union, India, and Japan. Usually offered every fall.

**33.370 Political Geography: Concepts and Issues (3)** Political geography is concerned with politically organized areas, their potential and extent, and the interaction between geography and political processes. Topics to be covered include cross-national boundary conflicts, ethnicity and politics, the relationship between resources and power, the law of the seas, and the geopolitics of foreign trade. Usually offered every term.

**33.372 Brussels Seminar /S 3:2 (4)** Part of the Study Abroad Semester in Brussels, this course covers the entire spectrum of U.S.-West European political, economic, and security relations. Selected topics include NATO, U.S.-West European economic and trade relations, the Commonwealth of Independent States and problems of European security, Europe and the Third World, West European demographics, social and industrial relations, and employment policies. Usually offered every term. *Pre-*



*prerequisite for General Education credit:* 33.105 or 33.110 or 33.140 or 53.130.

**33.373 Madrid Seminar /S 3:2 (4)** Part of the Study Abroad Semester in Madrid, this course covers the politics, economy, culture, society, and foreign relations of Spain. Selected topics include cultural norms of the Spanish family, the history of Spanish culture and thought, the impact of the European Common Market, Spain's foreign policy, the role of the monarchy in Spanish political life, regionalism and its significance today, the roles of major political parties, and the capacity for long-range development planning. Usually offered every spring. *Prerequisite:* second semester sophomore standing or above and two years of college Spanish, and, for General Education credit: 33.110 or 53.130.

**33.374 Buenos Aires Seminar /S 3:2 (4)** Part of the Study Abroad Semester in Buenos Aires, this course covers the politics, economy, culture, society, and foreign relations of Argentina. Selected topics include the political process and the party system, industrialization, inflation, and debt, and Argentina as a middle power in the international system. Usually offered every fall. *Prerequisite for General Education credit:* 33.140 or 53.130 or 65.110.

**33.375 Vienna Seminar: Contemporary Austria, Germany, and Switzerland /S 3:2 (4)** Part of the Study Abroad Semester in Vienna, this course intensively examines the political systems, economies, cultures, and societies of Germany, Austria, and Switzerland. It functions as the core course of the Vienna Semester. In addition to lectures by the director of The American University Center in Vienna, representatives from the political scene, the diplomatic corps, the United Nations, industry, trade associations, and the press speak on topics appropriate to their expertise. Usually offered every term. *Prerequisite for General Education credit:* 33.105 or 33.110 or 53.130.

**33.376 Brussels Semester Internship (4)** May be repeated for credit in the same term; topic may be the same. Usually offered every term.

**33.377 Madrid Semester Internship (4)** Internships of sixteen to twenty hours each week in one of several multinational and international organizations based in Madrid under the supervision of the resident professor. Usually offered every spring. *Prerequisite:* second semester sophomore standing or above and two years of college Spanish.

**33.378 Buenos Aires Internship (4)** Usually offered every fall.

**33.379 Vienna Semester Internship (3-6)** Students have the opportunity to participate in an internship program while studying in Vienna. Positions are available in political organizations, corporations, and civic groups for qualified students in the program. These internships are under the academic supervision of the Vienna Semester Resident Professor. Students are expected to attend classes and complete academic assignments in addition to working in these organizations. Usually offered every term. *Prerequisite:* participation in the Vienna Semester Program and acceptance by the World Capitals Program.

**33.381 Foreign Policies of the Great Powers (3)** Analysis of the historical evolution and contemporary development

of the foreign policies of the United States and the former Soviet Union, including the role of China in the foreign policy of each. Emphasis is on the interaction of the policies and behavior of the major powers. Usually offered every fall.

**33.382 The Analysis of United States Foreign Policy (3)** Approaches to the study of American foreign policy processes and decision making; the role of the President, the bureaucracy, the Congress, and public opinion. Attention to U.S. relations with select countries and regions. Usually offered every term.

**33.384 American Defense and Security Policy (3)** United States national security policy formulation, including organizational politics, NSC systems, state and defense departments, the intelligence community, defense budgeting, weapons acquisition, and executive-legislative relations. Usually offered every spring.

**33.385 United States Foreign Economic Policy /S (3)** Major factors and issues in U.S. international economic relations in terms of trade-offs between political and economic priorities; emphasis on U.S. international trade, finance, development, energy, and investment policies. Usually offered every term. *Prerequisite:* 19.100.

**33.388 International Environmental Politics (3)** Focuses on the political dimensions of transboundary ecological problems. Examines contemporary political responses to global environmental challenges and facilitates creative formulations of theory-based analyses of these challenges. Experiential approaches are also encouraged and emphasized. Usually offered every spring. *Prerequisite:* 33.105 or 33.110 or 53.130.

**33.389 Selected Topics in Policy Analysis (3)** Analysis of topics in public policy, with special attention to diplomatic, security, economic, or environmental policies. May be repeated for credit in the same term; topic must be different. Usually offered every term.

**33.390 Independent Reading Course in International Relations (1-6)**

**33.391 Internship in International Affairs (1-12)** Direct involvement in policy-making through participation in a government agency or nongovernmental organization. Credit varies depending on the nature of internship and the number of hours involved. *Prerequisite:* permission of coordinator of internships.

**33.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**33.400 Senior Seminar in International Relations (3)** A capstone experience for SIS majors. Designed to facilitate integration of knowledge in the international relations field. Development and oral defense of significant research projects. Focus of seminar varies by section. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* senior standing in SIS or permission of instructor.

**33.401 Senior Seminar in Language and Area Studies (3)** A capstone experience for Language and Area Studies majors. Designed to facilitate integration of knowledge in the language and area studies field. Development and oral

defense of significant research projects. Usually offered alternate springs.

**33.461 AU-Ritsumeikan Exchange (1-6)** Course constitutes key element in American University-Ritsumeikan University (in Kyoto, Japan) exchange program. Consult SIS Undergraduate Advising Office. May be repeated for credit within the same term: content/topic may be the same. Usually offered every term.

**33.465 Contemporary International Trade and Investment Policies (3)** The major contemporary foreign trade and international investment policy issues confronting the United States. Geographic and functional issues are analyzed in both economic and political terms. Usually offered every fall. *Prerequisite:* 33.385 or 19.311.

**33.468 Contemporary International Monetary, Finance, and Energy Policies (3)** The major contemporary monetary, financial, and energy policy issues confronting the international economic order and the United States. Problems are analyzed in both economic and political terms. Usually offered every spring. *Prerequisite:* 33.385 or 19.311.

**33.471, 33.472 International Environment and Development Seminar I (4), II (4)** Focusing on policy and the relationship of the models of development and environmental problems, the seminar links the world of the policymaker with that of the academic theorist. The theme of the seminar is: What do we mean by development, and how do we get there while preserving the planet? Usually offered every fall and spring. *Prerequisite:* permission of Washington Semester Program; must be taken concurrently.

**33.473 International Environment and Development Practicum (4)** This field experience during the final three weeks of the semester begins with seminars in the capital city with government officials, scholars from local universities, nongovernmental groups and foreign assistance organizations. Briefings continue as students travel throughout the country with their group, examining innovative programs now under way to create sustainable development alternatives. Students travel to Kenya in the fall semester and to Costa Rica in the spring semester. Usually offered every fall and spring. *Prerequisite:* permission of Washington Semester Program.

**33.474 International Environment and Development Internship (4)** While in Washington students engage in a two-day-per-week internship providing direct experience in an environmental and/or development organization. Students choose their own internships from possibilities such as U.S. Agency for International Development, TransAfrica, Environmental Protection Agency, Greenpeace USA, etc. Usually offered every fall and spring. *Prerequisite:* permission of Washington Semester Program.

**33.486 Peace and Conflict Resolution Seminar I (4)** Explores conflict, peacemaking, and conflict resolution from various perspectives and prepares students with conflict resolution and change skills to participate actively and creatively in building a global society based on peace, justice, and nonviolent resolution of conflicts. Usually offered every fall and spring. *Prerequisite:* permission of department.

**33.487 Peace and Conflict Resolution Seminar II (4)** Continuation of 33.486. Usually offered every term. *Prerequisite:* permission of department.

**33.488 Peace and Conflict Resolution Research Project (4)** Students select a topic related to peace and conflict resolution, and write an in-depth research paper of approximately 35 pages. Research skills, analysis, written skills, and a certain degree of originality are emphasized. Usually offered every term. *Prerequisite:* permission of department.

**33.489 Peace and Conflict Resolution Internship (4)** This course provides students with first-hand experience as members of the intern staff of organizations directly involved in a variety of peacemaking and social change efforts. Students choose their own internships based on individual interests. Usually offered every term. *Prerequisite:* permission of department.

**33.490 Independent Study Project in International Relations (1-6)**

**33.491 International Politics and Foreign Policy Seminar I (4)** Innovative approach to education which permits a group of students, guided by a team of professors, to devote their entire efforts for one semester to United States foreign policy formulation and implementation. Systematic study of foreign policy emphasizes qualitative analysis and employs quantitative methods as appropriate. Students participate in seminars, workshops, on-site observation, and meet with foreign policy makers and influencers from government, media, and other private-sector organizations. Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the foreign policy semester.

**33.492 International Politics and Foreign Policy Seminar II (4)** Continuation of 33.491. Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the foreign policy semester.

**33.493 International Politics and Foreign Policy Research Project (4)** Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the foreign policy semester.

**33.494 International Politics and Foreign Policy Internship (4)** Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the foreign policy semester.

**33.498 Senior Honors (3)** Usually offered every term.

### Graduate and Advanced Undergraduate Courses

**33.504 Multinational Corporations (3)** The structure and functions of multinational corporations in the global system and their developmental effect on other actors. Usually offered every term.

**33.513 Computer Applications in International Relations Research (3)** The use of the Statistical Package for the Social Sciences (SPSS) and multivariate statistical methods in international relations research. Usually offered every term. *Prerequisite:* 33.307 or 33.600.

**33.518 Legacy of World War II Diplomacy (3)** An examination of the issues spawned in international relations by World War II which affect the last half of the twentieth

century. Included are the advent of the nuclear age, rise of the superpowers, emergence of the Third World, establishment of the United Nations and other international or regional organizations, origins of the Cold War, and the recurrence of nationalism. In conclusion the course identifies contemporary danger spots which are traceable to World War II diplomacy. Usually offered alternate falls.

**33.518 Special Studies in International Politics (3)** Topics have included population dynamics, war crimes, ethnicity and international politics, Chinese ideology, and reform and revolution in Latin America. May be repeated for credit in the same term; topic must be different. Usually offered every term.

**33.520 Survey of International Law and Organization (3)** Graduate Introduction to the nature and functions of international law and the interstate system within which it operates. Emphasis on recent trends and future capabilities. For graduate students who have no previous courses in international law or international organization. Usually offered every fall.

**33.530 Colloquium on the Common Market (3)** Taught in French. Topics include institutional development, financing of community activities, community policies, external relations, community law, and business case studies. Specific issues within each area rotate regularly every semester over a two-year cycle. Usually offered every term.

**33.533 Seminar on the European Community's Current Programs (3)** Current community policies and their relevance to the achievement of a closer European union. Topics include: Internal Market, Financing Community Activities, Common Agricultural Policy (CAP), Regional Policy, Lomé Convention, Transport, Energy, Research and Technology, A People's Europe, Social Policy, Structural Environment, Economic and Monetary Union, and Community Law. Usually offered every spring.

**33.536 Special Topics in International Development (3)** Topics include: world food resources and policy, international administration, international planning, world population dynamics, disaster preparedness and relief, world housing, and world geography. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**33.537 Special Topics in Development Management (3)** Topics include managing rural development; agriculture and international development; migration, urbanization, and regional planning; development project management; development evaluation, and similar subjects. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 33.337, 33.637, or equivalent.

**33.551 Politics and Society in Europe since 1945 (3)** The political systems, values, and sociological changes in European society since 1945; an analysis of European nations and regions and of different levels of development and economic organization. Usually offered every fall.

**33.557 Foreign Policy Formulation in West European States (3)** Conditioning factors, instrumentalities, political parties, pressure groups and organizations, and public media and opinion. Usually offered every spring.

**33.558 Comparative Politics of the Russian Federation (3)** A comparative analytical approach to the study of Russia (and the Soviet Union). Emphasis is on the interdependence of Russian and Soviet traditions, political leadership, center-periphery relations, Russian governments, and the social dynamics of political change. Usually offered every fall.

**33.559 Selected Topics in Cross-National Studies (3)** Topics include comparative ethnic politics, comparative class formations, comparative strategies of modernization, comparative communist systems, culture and communication in cross-national studies; usually with a geographical, regional focus. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**33.561 Modern China (3)** Emergence of China as a world power, with emphasis on economic, political, and social trends in the People's Republic of China today. Usually offered alternate springs.

**33.562 Modern Japan (3)** Continuity and change in postwar Japanese society as contrasted with the prewar society. Usually offered alternate falls.

**33.565 Japanese-U.S. Economic Relations (3)** An examination of the economic and cultural factors contributing to the frictions and imbalances in the trading relationship of the world's two largest economies. The sources of divergent trade performances and dissimilar trade policies in Japan and the United States are analyzed, as well as efforts to restore bilateral harmony and equilibrium. Usually offered every spring. *Prerequisite:* six hours of basic economics.

**33.567, 33.568 International Relations of East Asia I (3), II (3)** Recent historical and contemporary interstate relations in East Asia, and the place of East Asia in world affairs. Usually offered every term.

**33.569 International Relations of Southeast Asia (3)** Recent and contemporary interstate relations in Southeast Asia and the place of Southeast Asia in world affairs. Usually offered alternate springs.

**33.571, 33.572 International Relations of the Middle East I (3), II (3)** Recent historical and contemporary interstate relations in the Middle East and North Africa and the place of the Middle East in world affairs. Usually offered every term.

**33.573 International Relations of Africa I (3)** Recent historical and contemporary interstate relations in Africa and the place of Africa in world affairs. Usually offered every term. *Prerequisite:* 33.250 or 33.265 or graduate standing.

**33.574 International Relations of Africa II (3)** Recent historical and contemporary interstate relations in Africa and the place of Africa in world affairs. Usually offered every term.

**33.577, 33.578 International Relations of Latin America I (3), II (3)** Recent and contemporary interstate relations in Latin America and the place of Latin America in world affairs. Usually offered every term.

**33.579 Selected Regional and Country Studies (3)** Selected topics in contemporary international relations

## 314 Courses of Instruction

with regional or area focus. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* appropriate regional course at the 500 or 600 level or equivalent.

**33.581 Schools of Thought in Contemporary United States Foreign Policy (3)** Seminar examining disparate normative assumptions about United States foreign policy. A wide spectrum of viewpoints is examined, and students explore their own values as they relate to foreign policy. Usually offered every spring.

**33.582 International Organizations and Latin American Development (3-6)** Drawing on Washington-area resources relating to Latin America and to Inter-American affairs (e.g., OAS, Inter-American Development Bank, USAID, and the Latin American diplomatic community), the course examines selected major issues in Inter-American relations with a focus on the role of international and U.S. agencies and on foreign policies of individual Latin American nations. Usually offered every summer.

**33.583 United States in World Affairs (3)** The role of the United States in world affairs and in contemporary regional issues. Focuses on U.S. interests in the Middle East, Europe, southern Africa, Central America and East Asia. Usually offered every fall.

**33.585 Contemporary United Nations (3)** Examines how new United Nations responsibilities will shape the emerging global system, how major groups of countries will affect the UN, and how particular cases highlight the relationships among countries in the UN system. Cases cover issues of crisis management, peace-keeping and developments in the Global South. Usually offered every spring.

**33.588 International Security and Arms Control (3)** The strengths and weaknesses of arms control. Examination of the military strategy-policy relationship, deterrence theory, strategic posture and doctrine, and terrorism. Usually offered every spring.

**33.589 Selected Topics in Comparative Policy Analysis (3)** Topics include comparative and foreign policy arenas such as welfare, education, science, housing, health, and development strategies (defense and disarmament, foreign economic policy); usually with a geographical, regional focus. May be repeated for credit in the same term; topic must be different. Usually offered every fall.

**33.590 Independent Reading Course in International Relations (1-6)**

**33.593 Humphrey Fellows Seminar (3)** A special seminar for Hubert Humphrey Fellows. Topics vary with the semester. Usually offered every term. May be repeated for credit, but not within the same term; topic must be different. *Prerequisite:* open to Humphrey Fellows; other students admitted by permission of instructor.

## Graduate Courses

**33.600 Introduction to Quantitative International Relations (3)** Introduction to research design, quantitative measurement, statistical analysis, and computer use for international relations research. Usually offered every term.

**33.601 Theory in International Relations (3)** Interdisciplinary perspectives; major paradigms of thought; definition of boundaries of the field; normative and analytic goals and definition of priorities. Usually offered every fall.

**33.602 Contemporary International Politics (3)** The course covers a number of contemporary topics from a diversity of perspectives. Topics include East-West relations, regional integration and fragmentation patterns, North-South relations, development and interdependency challenges, and the emergence of new actors in the international system. Usually offered every term.

**33.604 Masterworks of International Relations (3)** A literature course divided into twenty-one topics which are chronologically ordered by reference to the date of works initiating streams of discourse. Representative later works are also covered. Students are required to keep a working journal of their reading notes for the instructor's inspection. Usually offered every spring.

**33.605 Cooperative Global Politics (3)** This course examines the historical movement toward stability and order in the international political system with emphasis on comparing such concepts as nation-state/one world; national interest/human interest; rights of states/human rights; sovereignty/interdependence; war/collaborative conflict resolution. The concepts that underlie the competitive model of world politics—individualism, rationality, and self-interest—are analyzed within the global political context. Usually offered every fall.

**33.606 Global Politics as Cultural Activity (3)** The purpose of this course is threefold: first, to investigate the hypothesis that world politics is a cultural activity; second, to begin the articulation of a theoretical basis for a cultural analysis of world politics; and finally, to investigate whether such analysis provides a stronger basis for stability and order in the international system. Usually offered every spring.

**33.607 Peace Paradigms (3)** The history and development of approaches to peace, with particular emphasis upon the following: peace through coercive power, peace through nonviolence, peace through world order, and peace through personal and community transformation. Usually offered every spring.

**33.608 Educating for Global Citizenship (3-6)** This six-week institute for elementary and secondary teachers examines the dynamics of conflict and peacemaking through a case study approach to current conflicts. Review and development of curriculum materials, and instruction in conflict resolution skills provide the context for transferring the themes of the institute to classroom situations. Usually offered every summer. *Prerequisite:* permission of instructor.

**33.615 Fundamentals of United States Foreign Economic Policy (3)** Analysis of the principal American policies of international trade, finance, development, energy, and investment. Issues are examined in the context of foreign and domestic economic and political considerations. Usually offered every fall. *Prerequisite:* 19.100, 19.311, or equivalent.

**33.621 International Law and the Legal Order (3)** The nature and functions of international law in interstate

relations, with emphasis on recent trends in scholarship and on cases, documents, and other original materials. Usually offered every spring.

**33.625 World Organization and World Order (3)** The origins, principles, organization, activities, and circumstances of the League of Nations, United Nations, and allied models of future world order. Theoretical aspects are emphasized. Usually offered every spring.

**33.630 The European Community and International Trade (3)** The course addresses all students interested in increasing their knowledge of the European Community. It deals primarily with the development of the Community, its institutions, various common policies, external relations, and laws in the larger context of international business. Usually offered every fall.

**33.635 Advanced Topics in Development Management (3)** Topics include managing rural development; agriculture and international development; migration, urbanization, and regional planning; development project management; development evaluation, and similar subjects. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 33.337, 33.637, or equivalent.

**33.636 Micropolitics of Development (3)** People and their choices in developmental change. Some persons work within credit unions, cooperatives, parties, interest groups, or alone without much group support. Others rely on patrons, prayers, bribes, threats, or combinations of all these resources for survival. An understanding of survival struggles and strategies is the objective of this course. Usually offered every term.

**33.637 International Development (3)** Alternative theories and definitions of development as expressed in the major international institutions (aid agencies, cartels, multinational corporations) concerned with the transfer of resources. Considers the problems of the "change-agent" in working for development and examines the major development issues. Usually offered every term.

**33.638 Selected Topics in International Development Skills (1)** Introduction to a specific technique or approach currently used in the international development field, focusing on project planning, community development, action research, or another similar area. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 33.637, 19.560, or equivalent.

**33.639 Development Problems and Sectoral Strategies (3)** Examination and evaluation of the translation of international development theory into policy, programs, and projects, with particular emphasis on the following sectors: food and nutrition, health and family planning, human resource development, and energy and environmental activities. Offered irregularly. *Prerequisite:* 33.637 recommended but not required.

**33.640 International Communication (3)** International communication as a field of inquiry and research: perspectives, theories, and assumptions underlying communication between nations and peoples; international flow of information and its implications in relations among nations and cultures. Usually offered every term.

**33.641 Psychological and Cultural Bases of International Politics (3)** Phenomena and problems of international relations in terms of underlying cultural and psychological forces. Theory of international relations from the point of view of the behavioral sciences. Usually offered every spring. *Prerequisite:* 33.340 or 33.640.

**33.642 Cross-Cultural Communication (3)** Contribution of relevant social and behavioral sciences to the study of intercultural and cross-cultural communication. Analysis of culture as communication and value-systems as essential in communication. Usually offered alternate springs. *Prerequisite:* 33.640 or equivalent.

**33.643 Communication and Political Development (3)** Role of communication and media, both modern and traditional, in the processes of political socialization, mobilization, and political development. Usually offered every fall. *Prerequisite:* permission of instructor.

**33.644 Communication and Social and Economic Development (3)** Examination of economic, communication, and development theories, the role of information and communication technology in social and economic development; transfer of technology and uses of communication in economic growth, social change, and national integration. Usually offered every spring. *Prerequisite:* 33.640.

**33.645 International and Comparative Communication Policies (3)** Examination of communication systems and policies at national, regional, and international levels; the role of international organizations in the formation and implementation of communication policies; political economy of information and transborder data flow. Usually offered every fall. *Prerequisite:* 33.640.

**33.646 Information Systems and International Communication (3)** Illustrates the major concepts and techniques that comprise systems perspectives. Particular attention to the application of systems concepts and related techniques to the flow of information in and across organizations set in a complex, interdependent and changing world. Case studies and action research complement class reading and discussion. Usually offered every spring.

**33.648 Women and Development (3)** Provides the student with a critical evaluation of the main theoretical structures of feminism as applied to an analysis of the multiple facets of women's lives in the developing world. Explores the diverse socioeconomic, cultural, religious and political factors that affect women including the impact of development itself. Usually offered every spring. *Prerequisite:* 33.637 or equivalent.

**33.649 Environment and Development (3)** An overview of the newly emerging multi-disciplinary field of environment and development. Focusing on resource depletion in the Third World, the course is structured around three sets of inquiries: 1) various views of what constitutes the problem, 2) key debates over the root causes, and 3) local, national, and international governmental and nongovernmental policy responses. Usually offered every spring. *Prerequisite:* 33.637 or equivalent.

**33.651 Culture and Society: Marx to Weber (3)** Begins with Hegel and Marx and ends with the sociopolitical alterations after 1880, reflected in the sociology of Max Weber. Emphasis also includes Spencer, Comte, J. S. Mill,

Gumplovicz, Gabriel Tarde, and Durkheim, positivism, neo-Kantianism, and early Marxist-Leninism, particularly materialism and empirio-criticism. Contrapuntal themes: naturalism, Impressionism, German expressionism, and Italian futurism. Usually offered every fall. *Prerequisite:* courses in sociology, literature, and philosophy recommended.

**33.652 Culture and Society: Freud to Sartre (3)** The beginnings of psychoanalysis; Nietzsche and antirationalism; Sorel and myth; the role of models, fictions, and ideal types. The shift from liberal to antiliberal political systems: Soviet Russia and the arts; dadaism and surrealism. Spengler and metahistory; intellectuals and communism; the varieties of fascism. The generation of the absurd: Camus and Sartre. The phenomenon of National Socialism and its relation to cultural derangement. Usually offered every spring. *Prerequisite:* courses in philosophy, sociology, and European history recommended.

**33.655 International Relations of Western Europe (3)** World War II diplomacy affecting postwar Europe and the origins and development of the cold war. European security; West German foreign policy and East-West diplomacy relating to Germany from World War II to the present; and French foreign policy through the Gaullist period. Usually offered every fall.

**33.656 Contemporary International Relations of Western Europe (3)** Theoretical approaches to the study of European integration. Evolution of West European unity since World War II with emphasis on the European Community, United States-West European relations since the 1960s, and contemporary issues of European security. Usually offered every spring.

**33.659 International Relations of Russia and Central Eurasia (3)** The study of Soviet and Commonwealth foreign policies within the analytical perspectives of international relations theory. Historical and contemporary analysis of interstate and inter-regional relations in areas of Russian and Soviet influence. Usually offered every fall.

**33.664 Islam and Nationalism: Middle East (3)** Lectures and discussions on secular nationalism and Islamic militancy in the Middle East and North Africa during the past one hundred years; the origins and characteristics of the movements; the conflict between them and its impact on the politics and international relations of the area; the emergence of neofundamentalist Islamic movements. Usually offered every spring.

**33.665 Contemporary International Trade and Investment Policies (3)** The major contemporary foreign trade and international investment policy issues confronting the United States. Geographic and functional issues are analyzed in both economic and political terms. Usually offered every fall. *Prerequisite:* 19.611 or 33.615.

**33.666 Contemporary International Monetary, Finance, and Energy Policies (3)** The major contemporary monetary, financial, and energy policy issues confronting the international economic order and the United States. Problems are analyzed in both economic and political terms. Usually offered every spring. *Prerequisite:* 33.615 or 19.611.

**33.670 Theory and Method in Cross-National Studies (3)** Theoretical and methodological approaches to cross-national studies and their historical development; implications for contemporary research in comparative political and policy analysis; policy relevance of contending approaches (e.g., conflict versus consensus). Usually offered every fall.

**33.671 Seminar in Comparative Analysis (3)** An examination within a historical framework of the interrelationships between civil society and the modern state, placing in perspective issues related to civil rights and the social and political dynamics which underscore this process. Usually offered every fall. *Note:* not open to students who took 33.670 Theory and Methods of Cross-National Studies in spring 1990.

**33.672 Theories of Comparative and International Studies (3)** Unlike the dominant tradition which divides comparative and international politics into separate areas of inquiry, this course bridges these two fields. Topics covered in this seminar include the rise of the modern state and its relation to historical capitalism and the nation; interactions between the state and the market; democratization and civil society; social movements; and global culture. Usually offered every term.

**33.673 Comparative Political Economy (3)** Political economy is examined by comparing countries and regions. Considers the possibilities and limits of transposing models of state and society from one region to another. Focus is on the division of labor, class and identity, the state, industrialization strategies, technological policy, cultural formation, and identity. Usually offered every term.

**33.674 Integrated Seminar in Comparative and Regional Studies (3)** Designed to improve the student's ability to think conceptually about socio-economic, political, and cultural problems in his or her region of specialization as well as to broaden the student's knowledge of other regions. Topics vary from term to term. Usually offered every term. *Prerequisite:* all core requirements in Comparative and Regional Studies except 6 hours of research and writing.

**33.682 United States Foreign Policy (3)** Analysis of American foreign and defense policy processes, including the role of the President, Congress, Departments of State and Defense, the intelligence community, and other actors/factors affecting policy formulation and implementation. Usually offered every fall.

**33.683 Congress and United States Foreign Policy (3)** An examination of the role that the U.S. Congress plays in shaping foreign policy. Emphasis is given to contemporary congressional behavior, through case studies, with attention also devoted to constitutional factors and historical patterns. Usually offered every fall.

**33.684 National Security Policy (3)** Policy making, implementation, and control: civilian-military, military-industrial, and executive-legislative relations; and the interaction of security policies of the United States and other powers. Usually offered every fall.

**33.689 Seminar in Policy Analysis (3)** Graduate research seminars focusing on selected topics; analysis of Russian and Soviet policy-making, domestic and foreign.

Approaches to foreign policy analysis. Cognitive mapping in international relations. Social indicators in foreign policy research. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

### **33.690 Independent Study Project in International Studies (1-6)**

**33.691 Internship in International Affairs (1-12)** Direct involvement in policy making through participation in a governmental agency or nongovernmental organization. Credit varies depending on nature of internship and number of hours involved. Usually offered every term. *Prerequisite:* permission of coordinator of internships, SIS.

**33.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**33.693 Practicum: Action Research in Development Management (1-6)** Action research, supervised by a faculty member. Involves development management degree candidates in analyzing an organization and its interaction with its environment and clientele. Special attention is given to improving organizational responsiveness to community needs. *Prerequisite:* 19.560, 33.636, 33.637, 54.610, and 54.614.

**33.695 Research Seminar in International Communication (3)** Role and trends of research in international communication; examination of content, strategy and methods; critical analysis of varying schools of thought. Usually offered every spring and summer. *Prerequisite:* 33.640.

**33.701 Classical Theory in International Relations (3)** A historical/developmental survey of international relations, beginning with the post-World War I era. Professor and students examine the proposition that the literature of this relatively new field reflects and indeed grows out of the changing patterns of world politics at the time of writing. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program in International Relations.

**33.702 Comparative and Cross-National Studies (3)** Theoretical and methodological approaches to comparative and cross-national studies, with emphasis on the systemic context for political activity and how this is manifested in public and international policy. Literature drawn from several social sciences, with attention to policy and political systems in different types of countries. Usually offered every spring. *Prerequisite:* admission to the Ph.D. program in International Relations.

**33.703 Contemporary Theories of International Relations (3)** This course critically reviews developments in international relations theory over the last decade. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program in International Relations.

**33.704 Conduct of Inquiry in International Relations (3)** Survey and analysis of alternative theories of knowledge in the social sciences. Epistemological norms of modern empiricism. The critique of empiricism. Linguistic analysis, phenomenology, ethnomethodology, hermeneutics, critical theory, structuralism, and post-structuralism. Application to the study of international relations. Usually

offered every spring. *Prerequisite:* admission to the Ph.D. program in International Relations.

**33.710 Colloquium in International Relations (3)** Intensive dialogue between faculty members and doctoral students in the international relations field. Some M.A. students admitted with permission. Reading and discussion of literature and ideas in an aspect of the field announced in advance by the Graduate Office, School of International Service. Preparation for comprehensive examination. Offered irregularly.

**33.715 Seminar on Advanced Research Design (3)** An overview of social science research methodology issues guiding students in the design of their own research projects. Usually offered every spring. *Prerequisite:* matriculation in doctoral program.

**33.725 Seminar on Law in International Affairs (3)** The history and theory of international law, major areas of change in contemporary law, and the role of the practitioner. Research in students' special fields. Usually offered every spring. *Prerequisite:* School of International Service; permission of instructor; Washington College of Law; admission to J.D./M.A. program and second- or third-year standing.

**33.729 Research Seminar in International Law and Organization (3)** Research seminar organized according to need around a substantive problem focus, a technique focus, or a more general focus. Preparation for comprehensive examination. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall. *Prerequisite:* 33.621 or 33.625.

**33.740 Colloquium in International Communication (3)** Intensive dialogue between faculty members and doctoral students in international communication. Master's students who plan to take their comprehensive examinations are admitted with permission. Usually offered every spring.

**33.794 Substantial Research Paper with Coursework (3)** May meet with any 500-, 600-, or 700-level course in the School of International Service. May be repeated for credit in the same term; subject of paper must be different. Usually offered every term. *Prerequisite:* consult department; register using title of research paper as second line title.

**33.795 Master's Research Requirement (1-6)** Usually offered every term. May be repeated for credit within the same term; topic must be different. *Prerequisite:* consult department.

**33.797 Master's Thesis Supervision (1-6)**

**33.799 Dissertation Seminar (1-12)** Members of the SIS faculty, invited scholars, and doctoral students who have read dissertation proposals make formal scholarly presentations. Usually offered every term. *Prerequisite:* matriculation as a doctoral student in residence.

## **Jewish Studies**

### **Undergraduate Courses**

**34.101 Introduction to Jews and Judaism /A (3)** A survey of Judaism—its rituals and major institutions—

from its origins in antiquity to the modern Reform, Orthodox, Conservative, and Reconstructionist movements; also includes a discussion of the variety of secular expressions of Judaism adopted by American Jews. Usually offered every fall.

**34.205 Ancient and Medieval Jewish Civilization /S 2:2 (3)** Examines the independent Jewish states that flourished in Palestine, the rise of the most important Jewish communities outside the ancient Jewish homeland, and the foreign influences that shaped not only the political life of the Jews but also their internal organization and their creativity. Usually offered every fall. *Prerequisite for General Education credit:* 07.100 or 23.115 or 73.110.

**34.206 Modern Jewish Civilization /S (9)** A survey of the ways Jews responded to the challenges of modernity. These reactions included the creation of new Jewish communities in America and Israel, shifts in Jewish political status, and innovations in Jewish religious and intellectual life such as Zionism and Hasidism. Usually offered every spring.

**34.210 Voices of Modern Jewish Literature 2:2 (3)** Explores a variety of literary works analyzing the historical experience of modern Jewish communities in Europe, as well as the United States and Israel, emphasizing how migration, racism, industrialization, and political change affected these Jews and their Judaism. Usually offered every spring. *Prerequisite for General Education credit:* 29.115 or 61.105 or 76.150.

**34.211 Humanity and Jewish Identity /A (3)** Factors and issues that affect Jewish identity, such as assimilation, intermarriage and conversion, anti-Semitism, education, philanthropy, religious denominations, the synagogue, rituals, and the role of women. The impact of Israel, the Holocaust, and East European Jewry on Jews and Jewish institutions. Usually offered every spring.

**34.301 Introduction to Jewish Literature (3)** A survey of the ways Jews have expressed themselves in literary forms, beginning with the Bible and continuing with Biblical commentaries, the Talmud, medieval poetry, legal codes, and contemporary Jewish writing on the historical experience. Offered irregularly.

**34.305 Judaism and Current Issues /S (3)** Analysis of varied Jewish positions on some key issues of our time, such as East European Jewry, the role of women, the "Moral Majority," religion and state, anti-Semitism, abortion, biomedical ethics, and terrorism. Usually offered alternate falls.

**34.310 Topics in Jewish Religion and Thought /A (3)** Rotating topics on the intellectual and theological dimensions of the Jewish people. Personalities, such as Martin Buber; movements, such as Reform Judaism; or fields of study, such as Jewish mysticism. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall and spring.

**34.312 Holocaust and Modern Man /A (3)** Analysis of the roots of pathological anti-Semitism and racism that led to the Holocaust. Description of the intended "final solution," with attention to the responses of Jews and the nations of the world. Theological problems of explaining the Holocaust. Usually offered every fall.

**34.320 Topics in Jewish Culture (3)** Rotating courses on historical and contemporary aspects of the Jewish heritage, such as Judaism and Hellenism; Judaism and Islam; art, dance, and drama as expressions of the Jewish spirit; and Jewish education, content, and method. May be repeated for credit but not in the same term; topic must be different.

**34.328 Judaism and Christianity in Dialogue (3)** This is a course generally taught by a Jewish scholar and a Christian scholar. The theological differences and similarities between the two traditions are discussed from all points of view. The origin of Christianity out of Judaism and the divergences in their respective directions are analyzed. Attention is also given to agreement and conflict on political and social issues, such as abortion, church and state, missionary activity, and religious prejudice. Usually offered alternate springs.

**34.330 The American Jewish Community /S (3)** Today American Jewry constitutes the preeminent Diaspora Jewish community. This course traces the remarkable development of this group by examining the waves of Jewish immigration to the United States and the institutions that American Jews created to sustain their community. Usually offered alternate springs.

**34.340 Topics in Jewish Literature /A (3)** An in-depth examination of one theme or period in Jewish literature. Topics include Holocaust literature, modern Hebrew poetry, Jewish liturgy and song, Yiddish literature, American Jewish literature, and folktales. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

**34.385 Zionism and the State of Israel /S (3)** Zionism as a philosophy; the concept of Zion in post-Biblical literature and thought; the establishment of the state of Israel, its current status and problems, and its relationship to the Arab world. Usually offered every spring.

**34.390 Independent Reading Course in Jewish Studies (1-6)**

**34.392 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication. Usually offered every term.

**34.481 Senior Thesis in Jewish Studies I (3)** Jewish studies majors prepare a thesis on a topic selected after consultation with the student's adviser. Usually offered every fall. *Prerequisite:* all other Jewish studies program major requirements.

**34.482 Senior Thesis in Jewish Studies II (3)** Completion of senior thesis on a topic selected after consultation with the student's adviser. Usually offered every spring. *Prerequisite:* 34.481.

**34.490 Independent Study Project in Jewish Studies (1-6)**

**34.491 Internship in Jewish Studies (1-6)** The internship provides the student an opportunity to enrich organizational skills and experience. The student earns university credit for the work and contributes needed services to the host agency, such as community relations, religious, Israel-centered, or social welfare agencies. The



amount of credit depends on the number of hours of work. Usually offered every term.

### Graduate and Advanced Undergraduate Courses

**34.504 Jewish Ethics and Values (3)** An introduction to advanced methods of handling Jewish texts dealing with legal, ethical, and moral issues confronting modern society. Topics such as birth control, abortion, zero population growth, gambling, women's liberation, cruelty to animals, euthanasia, business ethics, and the conflict of ethics and law are studied. Usually offered alternate years. *Prerequisite:* knowledge of basic Jewish philosophical and rabbinic concepts and permission of instructor.

**34.508 Analysis of Jewish Liturgical Texts (3)** An in-depth study of liturgy in Judaism. The major vehicle for the study is the liturgy itself, but the class also does readings from the secondary literature. The liturgical texts are drawn from classical and contemporary sources. Offered irregularly.

**34.590 Independent Reading Course in Jewish Studies (1-6)**

### Graduate Courses

**34.690 Independent Study Project in Jewish Studies (1-6)**

## Language and Foreign Studies

### ARABIC

**36.102 Arabic Elementary I (3)** An introduction to modern standard Arabic used in formal situations, meetings, instruction in schools and universities around the Arab world, media, press, etc. Begins with the phonology and script of the language, then concentrates on the important syntactic structures of the language as well as its morphology. Students are expected, at the end of Elementary I, to be able to express simple ideas, and to understand simple material including frequent structural patterns and vocabulary. Usually offered every fall.

**36.103 Arabic Elementary II (3)** Continuation of 36.102. Usually offered every spring. *Prerequisite:* 36.102 or permission of instructor.

### CHINESE

**36.112 Chinese, Intensive Elementary I / A (5)** Understanding and speaking conversational Chinese and reading simple texts. Emphasis on audio-lingual skills. Common speech situations. Pronunciation drills, structural pattern drills within the limits of a basic vocabulary, and exercises in the Chinese writing system constitute the main part of classroom and laboratory activities. Usually offered every fall.

**36.113 Chinese, Intensive Elementary II / A (5)** Continuation of 36.112. *Prerequisite:* 36.112 or equivalent. Usually offered every spring.

**36.212 Chinese, Intensive Intermediate I / A (5)** Further practice in conversation; acquisition of new grammatical structures, vocabulary, and characters. Content includes cultural topics related to customs, history, geography, and literature. Usually offered every fall. *Prerequisite:* 36.113 or permission of instructor.

**36.213 Chinese, Intensive Intermediate II / A (5)** Continuation of 36.212. Usually offered every spring. *Prerequisite:* 36.212 or permission of instructor.

### CZECH

**36.162 Introduction to the Czech Language (1)** This two-week intensive course in Czech is an introduction to the language for the Semester in Prague, and coincides with the students' immersion in Czech and acculturation. Offered only in Prague. Usually offered every fall.

**36.164 Elementary Czech Language I (3)** This course follows 36.162 Introduction to the Czech Language. Students expand their basic knowledge of Czech and explore the areas of conjugations, declensions, verb tenses, the use of pronouns, adverbs, and elementary translation. Offered only in Prague. Usually offered every fall. *Prerequisite:* 36.162 or equivalent.

### FRENCH: Undergraduate Courses

**36.122 French, Elementary I / A (3)** Emphasis on audio-lingual skills. Drills on the main features of French structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall and summer.

**36.123 French, Elementary II / A (3)** Continuation of 36.122. Usually offered every spring and summer. *Prerequisite:* 36.122 or equivalent.

**36.124 French, Intensive Elementary I / A (5)** Usually offered every fall.

**36.125 French, Intensive Elementary II / A (5)** Continuation of 36.124. Usually offered every spring. *Prerequisite:* 36.124 or equivalent.

**36.222 French, Intermediate I / A (3)** Audio-lingual skills as well as reading and writing. Text material is focused on French cultural patterns. Usually offered every fall. *Prerequisite:* 36.123 or equivalent.

**36.223 French, Intermediate II / A (3)** Continuation of 36.222. Usually offered every spring. *Prerequisite:* 36.222 or equivalent.

**36.224 French, Intensive Intermediate I / A (5)** Usually offered every fall. *Prerequisite:* 36.123 or 36.125.

**36.225 French, Intensive Intermediate II / A (5)** Continuation of 36.224. Usually offered every spring and summer. *Prerequisite:* 36.222 or 36.224 or equivalent.

**37.322 French Conversation and Composition I / A (3)** Perfection of audio-lingual and reading-writing skills. Vocabulary expansion through a variety of classroom activities. Study of idioms, clichés, and style as used in spoken and written French. Designed for students who have studied French in the nonintensive track and who wish to continue to develop their practical skills in French. Usually offered every fall. *Prerequisite:* 36.223 or equivalent.

**37.323 French Conversation and Composition II / A (3)** Continuation of 37.322. Usually offered every spring. *Prerequisite:* 37.322 or equivalent.

**37.324 French Intensive Conversation and Composition I / A (5)** Usually offered every fall. *Prerequisite:* 36.223 or 36.225.

**37.325 French Intensive Conversation and Composition II / A (5)** Continuation of 37.324. Usually offered every spring. *Prerequisite:* 37.322 or 37.324 or equivalent.

**37.326 French Topics (3)** Courses taught in French on these topics: political life, the role of women, French politics, France today, French cinema, advanced French translation, etc. May be repeated for credit in the same term; topic must be different. Usually offered every term. Meets with 37.626. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

**37.328 Introduction to French Translation (3)** An introduction to the methods, techniques, and problems involved in translating from French into English. Emphasis is on the practice of translating general material with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Usually offered every fall. Meets with 37.628. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

**37.329 Le Français Commercial (3)** Advanced language course focusing on business expressions and terminology intended to prepare students for the *Certificat Pratique* examination offered by the Paris Chamber of Commerce. Emphasis on written and oral skills. Students learn to comprehend texts related to commercial topics (advertising, agriculture, travel, insurance, etc.) and to write business letters and reports in French. Usually offered every spring. *Prerequisite:* 37.323 or 37.325. *Note:* not open to students who have taken 37.423 *Le Français des Affaires*.

**37.385 Paris: Civilization and Culture (4)** Lectures and discussions focus on art, architecture and literature in Paris, using the physical city as a "text" to further understand French culture. Field trips supplement classroom sessions. Reading and writing assignments integrate classroom and field trips. Class taught in English. Offered only in Paris. Does not carry credit toward the French major. Usually offered every spring.

**37.420 Les Registres du Français (3)** An introduction to the cultural levels of the French language—colloquial French, standard French, formal French, familiar French—and to the differences between spoken and written French. Also included: study of literary prose, versification, dialects, and aspects of selected technical vocabularies. Designed for students who wish to understand the intricacies of the French language. Usually offered alternate falls. *Prerequisite:* 37.326 and sophomore standing.

**37.428 Civilisation Française I (3)** France from the Middle Ages to the French Revolution—a survey of political, social, and economic developments, emphasizing the differences between the *culture des élites* and *culture du peuple*, as seen through primary sources. Usually offered every fall. *Prerequisite:* 37.326 and sophomore standing.

**37.429 Civilisation Française II (3)** France in the nineteenth and twentieth centuries. Study of the *nouveau régime*, the effects of the French revolutions on the social classes and their mental structures. Emphasis on the difference between the *culture des élites* and *culture du peuple*. Usually offered every spring. *Prerequisite:* 37.326 and sophomore standing.

**37.491 Internship: French (2-3)** Supervised work-study program. Usually offered every term. *Prerequisite:* permission of instructor.

## **FRENCH: Graduate and Advanced Undergraduate Courses**

**37.521 Le Classicisme Français (3)** Study of major literary works of seventeenth century France in light of the socio-cultural system that they reflect. Focus on formal and sociocontextual methods of reading. All works are studied primarily as texts and the art of their construction and expression is closely examined. Lectures provide introductory and supplemental information. Usually offered alternate springs.

**37.522 Le Siècle des Lumières (3)** Attitudes and ideas of the age of enlightenment as reflected in Montesquieu, Diderot, the Encyclopedists, Voltaire, and Rousseau. Usually offered every spring.

**37.523 Le Romantisme (3)** Development of the romantic movement in early nineteenth century French literature. Analysis of sentiments of romanticists. Offered irregularly.

**37.524 Le Réalisme (3)** Nineteenth century French literature from the decline of romanticism to the turn of the century. Periods of expression known as realism, naturalism, and symbolism. Offered irregularly.

**37.525 Littérature Contemporaine (3)** Topic changes each semester; emphasis on genre, movement, or major writers. May be repeated for credit; topic must be different. Usually offered every term.

**37.526 Les Grands Auteurs Français I (3)** Study of major French literary works from the middle ages through the eighteenth century. All works are studied as texts and the art of their construction and expression is closely examined. Attention is paid to the conflict between individual and social forces, the metamorphosis of form and content, and the evolution of language. Usually offered alternate falls.

**37.527 Les Grands Auteurs Français II (3)** A study of the major French writers of the nineteenth and twentieth centuries. Readings are drawn from representative works of the various authors to show the emergence, development, and transformations of literary form. Special emphasis is placed on literary analysis and critical writing. Usually offered alternate springs.

**37.529 Colloquium on France (3)** Lectures, reports, and critical discussions on selected topics pertaining to France's current role in international politics. Cultural trends and economic problems. Taught in French. May be repeated for credit in the same term; topic must be different. Usually offered alternate years.

## **FRENCH: Graduate Courses**

**37.626 French Topics (3)** Courses taught in French on these topics: political life, the role of women, French politics, France today, French cinema, advanced French translation, etc. Meets with 37.326. May be repeated for credit in the same term; topic must be different. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

**37.628 Introduction to French Translation (3)** An introduction to the methods, techniques, and problems involved in translating from French into English. Emphasis is on the practice of translating general material with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Meets with 37.328. Usually offered every fall.

**37.702 Seminar in French Studies (3)** Reports and critical discussion of research papers on French literature. May be repeated for credit; topic must be different. Usually offered every term.

### **GERMAN: Undergraduate Courses**

**36.132 German, Elementary I /A (3)** Emphasis on audio-lingual skills. Drills on the main features of German structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall.

**36.133 German, Elementary II /A (3)** Continuation of 36.132. Usually offered every spring. *Prerequisite:* 36.132 or equivalent.

**36.134 German, Intensive Elementary I (5)** Emphasis on audio-lingual skills and mastering the main features of German structure. Acquisition of basic vocabulary. Inductive presentation of grammar. Reading and writing as auxiliary skills. Five hours of classroom instruction, supplemented with laboratory work (audio and visual tapes). Usually offered every fall.

**36.135 German, Intensive Elementary II (5)** Continuation of 36.134. Usually offered every spring.

**36.136 Intensive German Language Level I (6)** Part of the Study Abroad Semester in Vienna, this course provides emphasis on vocabulary acquisition, basic grammatical structure, development of correct pronunciation, intensive exercise of oral skills in situations, and reading basic texts. Usually offered every term.

**36.232 German, Intermediate I /A (3)** Audio-lingual skills as well as reading and writing. Text material is focused on German cultural patterns. Usually offered every fall. *Prerequisite:* 36.133.

**36.233 German, Intermediate II /A (3)** Continuation of 36.232. Usually offered every spring. *Prerequisite:* 36.232.

**36.236 Intensive German Language Level II (6)** Part of the Study Abroad Semester in Vienna, this course provides refinement of basic skills, learning of more complex grammatical structure and syntax, expansion of vocabulary, and intensive practice of conversation and writing in a cultural context. Usually offered every term. *Prerequisite:* 36.136 or 36.133, and 36.134.

**37.332 German Conversation and Composition I /A (3)** Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. *Prerequisite:* 37.330 or 37.331 or permission of instructor.

**37.333 German Conversation and Composition II /A (3)** Continuation of 37.332. Usually offered every spring. *Prerequisite:* 37.332.

**37.335 Intensive German for Business (6)** Part of the Study Abroad Semester in Vienna, this course provides an intensive introduction into the world of business German. Insights are given into the areas of advertising, retailing, wholesale, banking, German business correspondence, code of behavior in the German-speaking business world, and business terminology. Taught in German. Usually offered every term. *Prerequisite:* 36.233 or equivalent.

**37.336 German Topics (3)** Courses taught in German on one of these topics: customs and manners, lands and regions, east and west, survey of arts, etc. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite:* 37.332 or permission of instructor.

**37.338 Introduction to German Translation (3)** An introduction to the methods, techniques, and problems involved in translating from German into English. Emphasis on translating general material, with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Usually offered every fall. *Prerequisite:* 37.333 or permission of instructor.

**37.431 Modern German Drama (3)** Survey of German dramatic literature from the 18th century to the present. Reading of primary texts in the original, as well as secondary and critical readings which place the plays in the political and social context in which they were created. Usually offered alternate springs. *Prerequisite:* 37.333 or permission of instructor.

**37.432 Studies in German Film (3)** Introduction to the history, theory, and critical analysis of the German cinema arts. Weekly film screenings provide a framework for the study and criticism of German film, from its beginnings through the New German Cinema. Usually offered alternate falls. *Prerequisite:* 37.333 or permission of instructor.

**37.436 Intensive Advanced German (6)** Part of the Study Abroad Semester in Vienna, this course provides practice of speaking and writing on an elevated level. Emphasis on the use of German in everyday situations, subject-related discussions, correspondence, and creative writing. Elimination of frequently made mistakes should lead to fluency in German. The course should be a "capstone experience" in studying the German language. Usually offered every term. *Prerequisite:* 36.236 or 37.332.

**37.438 German Civilization I (3)** A chronological survey of German civilization from its beginning to the present. The course provides information necessary to the understanding of historical developments in politics, economics, fine arts, and intellectual movements. Conducted in German. Usually offered alternate falls. *Prerequisite:* 37.333 or permission of instructor.

**37.439 German Civilization II (3)** A continuation of 37.438. Conducted in German. Usually offered alternate springs. *Prerequisite:* 37.333 or permission of instructor.

**37.491 Internship: German (3-6)** Supervised work-study program. Usually offered every term. *Prerequisite:* three years of college German or equivalent.

**HEBREW**

**36.116 Hebrew, Elementary Modern I /A (3)** Usually offered every fall.

**36.117 Hebrew, Elementary Modern II /A (3)** Usually offered every spring. *Prerequisite:* 36.116 or equivalent.

**36.216 Hebrew, Intermediate Modern I /A (3)** Usually offered every fall. *Prerequisite:* 36.117 or equivalent.

**36.217 Hebrew, Intermediate Modern II /A (3)** Usually offered every spring. *Prerequisite:* 36.216 or equivalent.

**HINDI**

**36.110 Hindi, Elementary I /A (3)** Usually offered every fall.

**36.111 Hindi, Elementary II /A (3)** Usually offered every spring. *Prerequisite:* 36.110 or equivalent.

**HUNGARIAN**

**36.172 Introduction to the Hungarian Language (1)** This special two week intensive course in Hungarian is an introduction to the language for the semester in Budapest. Students get an intensive language course with the students' immersion in Hungary and acculturation in Budapest. Usually offered every spring.

**36.174 Elementary Hungarian Language I (3)** Continuation of 36.172. Students expand their basic knowledge of Hungarian, exploring conjugations, verb tenses, pronouns, adverbs, and nouns, and develop skill in translation. Offered only in Budapest. Usually offered every spring. *Prerequisite:* 36.172 or equivalent.

**ITALIAN**

**36.118 Italian, Elementary I /A (3)** Emphasis on mastering structure. Basics of phonology and morphology. Situational approach. Development of good pronunciation and speech patterns. Two and a half hours per week of class instruction supplemented by individual language and laboratory work. Usually offered every fall and summer.

**36.119 Italian, Elementary II /A (3)** Continuation of 36.118. Usually offered every spring and summer.

**36.218 Italian, Intermediate I /A (3)** Refinement of basic language skills. Expansion of vocabulary in a cultural context. Development of communicative skills. Reading and writing as auxiliary skills. Usually offered every fall. *Prerequisite:* 36.119 or equivalent.

**36.219 Italian, Intermediate II /A (3)** Continuation of 36.218. Usually offered every spring. *Prerequisite:* 36.218 or equivalent.

**JAPANESE**

**36.114 Japanese, Intensive Elementary I /A (5)** Understanding and speaking conversational Japanese and reading simple texts. Emphasis on audio-lingual skills in common speech situations. Pronunciation drills, structural pattern drills within the limits of basic vocabulary, and exercises in Japanese writing system. Usually offered every fall.

**36.115 Japanese, Intensive Elementary II /A (5)** A continuation of 36.114. Usually offered every spring. *Prerequisite:* 36.114 or permission of instructor.

**36.214 Japanese, Intensive Intermediate I (5)** A continuation of skills development in understanding, speaking, reading, and writing Japanese. Usually offered every fall. *Prerequisite:* 36.115 or equivalent.

**36.215 Japanese, Intensive Intermediate II (5)** A continuation of 36.214. Skills development in understanding, speaking, reading, and writing Japanese. Usually offered every spring. *Prerequisite:* 36.214 or equivalent.

**LANGUAGE AND FOREIGN STUDIES (GENERAL)**

**36.390 Independent Reading Course in Language and Foreign Studies (1-6)**

**Advanced Courses**

**36.490 Independent Study Project in Language and Foreign Studies (1-6)**

**37.390 Independent Reading Course in Language and Foreign Studies (1-6)**

**37.392 Cooperative Education Field Experience (3-9)**

**37.401 Senior Seminar in Language and Area Studies (3)** Designed to integrate coursework and research in language and area of concentration. Development of significant research project in conjunction with participation in interactive seminar. Usually offered alternate springs.

**37.490 Independent Study Project in Language and Foreign Studies (1-6)**

**Graduate and Advanced Undergraduate Courses**

**36.590 Independent Reading Course in Language and Foreign Studies (1-6)**

**37.590 Independent Reading Course in Language and Foreign Studies (1-6)**

**Graduate Courses**

**36.690 Independent Study Project in Language and Foreign Studies (1-6)**

**37.690 Independent Study Project in Language and Foreign Studies (1-6)**

**37.692 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**37.797 Master's Thesis Seminar (1-6)** May be repeated for credit within the same term. Usually offered every term.

**LATIN**

**36.108 Latin, Elementary (3)** A foundation for the reading and understanding of Latin. This includes studying the phonology of Latin, building vocabulary, studying Latin grammar, and reading and translating Latin texts. Usually offered every fall.

**LINGUISTICS: Undergraduate Courses**

**38.253 Language and Mind (3)** This course examines the relationships between language and the mind and theories of first- and second-language acquisition. Theories of sec-

ond-language acquisition in childhood and by older learners and how they relate to trends in society and education. Usually offered alternate falls. *Note:* not open to students who have taken 38.200 Language and Mind.

**38.322 Language Acquisition (3)** How and why do children learn language? Investigates language acquisition during the first five years (both speech and the rudiments of literacy). Major themes include the dynamics of the "language duet" between children and adults, variation across children, bilingualism, and the emergence of language awareness. Usually offered alternate springs.

**38.323 Second-Language Acquisition (3)** Theories of second-language acquisition and how they relate to trends in society and in education and related disciplines. Current theory in cognitive and affective domains as it relates to second-language learning. Usually offered alternate springs. *Note:* not open to students who have taken 38.523 Second-Language Acquisition.

**38.352 Language and Ethnicity (3)** Examines the complex relationships between language, personal identity, gender, ethnicity, marginality, and nationalism. Case studies explore language problems in nation-building, ethnicity and language maintenance, and the cultural consequences of language shift. Usually offered every spring. *Note:* not open to students who have taken 38.198 Language and Ethnicity.

#### LINGUISTICS: Graduate and Advanced Undergraduate Courses

**38.500 Principles of Linguistics (3)** Introduction to scientific study of language with emphasis on current linguistic trends. Foundations for further study in linguistics and methodology of language teaching. Usually offered every term.

**38.501 Theory and Practice of ELT I (3)** A practical course introducing several methods of language instruction, examined with respect to both their foundations in linguistic theory and their implementation in the language classroom. Central to the course are opportunities to observe, demonstrate, and critique these methods. Usually offered every fall. *Prerequisite:* 38.500, which may be taken concurrently.

**38.502 Theory and Practice of ELT II (3)** A practical course focusing on classroom techniques and activities designed to facilitate the acquisition of the pronunciation, listening comprehension, reading, writing, and grammar of English. Central to the course are opportunities to observe, demonstrate, and critique these techniques and activities. Usually offered every spring. *Prerequisite:* 38.500, which may be taken concurrently.

**38.503 Structure of English (3)** Explores the complexities of spelling and word formation, grammatical structure, and semantic relations in English. Various approaches to grammatical analysis are covered, but the emphasis is on developing the practical foundations necessary for effective teaching, rather than on theoretical models. Usually offered every fall.

**38.525 Teaching English for Specific Purposes (3)** A survey of the range of subject matter and instructional situations included under "English for specific purposes."

Sample instructional materials from several areas are examined in detail. Adaptation of materials and writing of original materials are required. Usually offered every fall. *Prerequisite:* 38.501 or 38.502.

**38.527 Sociolinguistics (3)** Examines variability and uses of language within various types of speech communities and the correlation with such nonlinguistic factors as the topic of discourse, the identity of the participants, and the setting of the communicative act. Both monolingual and multilingual societies in developed and developing areas will be considered. Usually offered alternate falls. *Prerequisite:* permission of instructor.

**38.528 Bilingual Education (3)** Language acquisition, use, and competency in a bilingual setting, and the general goal of bilingual education. *Prerequisite:* permission of instructor.

**38.531 Language Teaching and Testing (3)** Designed for the TESOL graduate program as well as for those interested in second-language testing, this course offers an introduction to simple statistics, the skills of item-writing, and experience in test design and administration. Usually offered alternate falls.

**38.552 Linguistic Structure I: Phonetics and Phonemics (3)** Techniques of describing speech sounds in terms of articulatory movements and formulas. Practice in hearing and transcribing phonetic sounds using tape recordings. Basic premises of phonemic analysis and practical procedures for arriving at phonemes of a language. Offered irregularly. *Prerequisite:* 38.500.

**38.553 Linguistic Structure II: Morphology and Syntax (3)** Problems in analysis and description of morphological data. Introduction to transformational generative grammar. Offered irregularly. *Prerequisite:* 38.500.

**38.554 Computer Applications for Language Teachers (3)** Offers an introduction to both IBM and Macintosh computers. BASIC and Macintosh techniques, software use on both computers, and HYPERCARD are included. Students are introduced to software used in second-language education, especially TESOL, and in the teaching of writing, and the use of such software in classroom interaction structures. Usually offered every spring. *Prerequisite:* 38.500

**38.590 Independent Reading Course in English or Linguistics (1-6)**

#### LINGUISTICS: Graduate Courses

**38.620 Practicum in ESL (3)** Observation, participation and supervised classroom experience in selected ESL classes of the English Language Institute. Weekly conferences and/or seminars. Usually offered every spring. *Prerequisite:* 38.501 and 38.502 (previous teaching experience can substitute for one of these courses); permission of instructor required.

**38.622 Language Acquisition (3)** How and why do children learn language? Investigates language acquisition during the first five years (both speech and the rudiments of literacy). Major themes include the dynamics of the "language duet" between children and adults, variation across children, bilingualism, and the emergence of language awareness. Usually offered alternate springs.

**38.623 Second-Language Acquisition (3)** Theories of second-language acquisition and how they relate to trends in society and in education and related disciplines. Current theory in cognitive and affective domains as it relates to second-language learning. Usually offered alternate springs. *Note:* not open to students who have taken 38.523 Second-Language Acquisition.

**38.690 Independent Study Project in English or Linguistics (1-6)**

**38.700 Seminar in Linguistics (3)** Content varies. Reports and critical discussion of theoretical and practical problems in linguistics and TESL/TEFL. Critical evaluation of books and papers on appropriate subjects. May include the preparation of language teaching materials. Must include a research paper or project. May be repeated for credit in the same term; topic must be different. Usually offered every fall. *Prerequisite:* permission of the department.

**38.797 Master's Thesis Seminar (1-6)**

## POLISH

**36.106 Polish Elementary I (3)** Emphasis on communicative competence and spoken Polish to acquire oral skills in selected registers, such as shopping, social meetings, tourism, and everyday conversation. Usually offered every fall.

**36.107 Polish Elementary II (3)** Continuation of 36.106. Usually offered every spring. *Prerequisite:* 36.106.

## RUSSIAN: Undergraduate Courses

**36.144 Russian, Intensive Elementary I /A (5)** Emphasis on audio-lingual skills and mastering the main features of Russian structure. Exercises in the Russian writing system, phonology, and reading drills. Acquisition of basic vocabulary. Inductive presentation of grammar. Five hours of classroom instruction, supplemented with laboratory work (audio and video tapes). Usually offered every fall.

**36.145 Russian, Intensive Elementary II /A (5)** Continuation of 36.144. Usually offered every spring. *Prerequisite:* 36.144 or equivalent.

**36.244 Russian, Intensive Intermediate I /A (5)** Refinement of basic language skills. Expansion of vocabulary in a cultural context. Review of grammatical structures. Development of communicative skills. Reading and writing as auxiliary skills. Five hours of classroom instruction, supplemented with laboratory work (audio and video tapes). Usually offered every fall. *Prerequisite:* 36.145 or equivalent. *Note:* not open to students who have taken 36.246.

**36.245 Russian, Intensive Intermediate II /A (5)** Continuation of 36.244. Usually offered every spring. *Prerequisite:* 36.244 or equivalent. *Note:* not open to students who have taken 36.247.

**36.246 Russian, Intensive Intermediate I (6)** Refinement of basic language skills. Expansion of vocabulary in a cultural context. Review of grammatical structures. Development of communicative skills. Reading and writing as auxiliary skills. Offered in Moscow. Usually offered every fall and spring. *Prerequisite:* consult the World Capitals

Programs office. *Note:* not open to students who have taken 36.244.

**36.247 Russian, Intensive Intermediate II (6)** Continuation of 36.246. Offered in Moscow. Usually offered every fall and spring. *Prerequisite:* consult World Capitals Programs office. *Note:* not open to students who have taken 36.245.

**37.200 Russia and the United States /S 3:2 (3)** A comparative study of the two superpowers, Russia and the United States, through an interdisciplinary approach with emphasis on the major similarities and differences. The course draws topics primarily from international studies, political science, history, literature, and the arts. Taught in English. Usually offered every fall. *Prerequisite for General Education credit:* 33.105 or 53.130. *Note:* not open to students who have taken 00.200/37.240/01.300 Russia and America.

**37.341 Russian Media and Political Translation (3)** Reading and translating selected sociopolitical texts and current periodical publications. Vocabulary expansion through study of word formation. Study of idioms, terms, and syntactic patterns. May be repeated for credit in the same term; topic must be different. Usually offered every fall. *Prerequisite:* three years of college Russian or equivalent or permission of instructor.

**37.342 Russian Conversation and Composition I /A (3)** Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. *Prerequisite:* 36.243 or equivalent. *Note:* not open to students who have taken 37.344.

**37.343 Russian Conversation and Composition II /A (3)** Continuation of 37.342. Usually offered every spring. *Prerequisite:* 37.342 or equivalent. *Note:* not open to students who have taken 37.345.

**37.344 Russian Conversation and Composition I (6)** Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Offered in Moscow. Usually offered every spring. *Prerequisite:* consult the World Capitals Programs office. *Note:* not open to students who have taken 37.342.

**37.345 Russian Conversation and Composition II (6)** Continuation of 37.344. Offered in Moscow. Usually offered every spring. *Prerequisite:* consult the World Capitals Programs office. *Note:* not open to students who have taken 37.343.

**37.347 Introduction to Russian Literature (3)** A systematic survey of the historical development of Russian literature. Reading of selected texts in the original. Usually offered every spring. *Prerequisite:* two years of college Russian or equivalent.

**37.442 Russian Literary Translation (3)** Reading and translation of selected Russian and Soviet literary works. Vocabulary expansion through study of word formation. Study of idioms and syntactic patterns that present translation problems. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

**Prerequisite:** three years college Russian or permission of instructor.

**37.491 Internship: Russian (2-3)** Supervised research and study based on comparison of selected readings and first-hand travel experience. Usually taken in conjunction with group travel to Russia. **Prerequisite:** permission of instructor and dean or department chair.

### **RUSSIAN: Graduate and Advanced Undergraduate Courses**

**37.501 Seminar on Russia (6)** Features presentations from Moscow's academic, business, and other sectors. Provides overview of the complex problems facing Russia and the states of the former Soviet Union. Lectures provide perspectives from Soviet and Russian literature, art, music, journalism, and current media materials. Offered only in Moscow. Taught in English by AU and/or Moscow State University faculty (guest presentations and media materials frequently in Russian). Usually offered every term. **Prerequisite:** Two years of college Russian and appropriate reading and listening skills in Russian, and permission of the World Capitals Program Office.

**37.540 Russian Structure (3)** Contemporary and historical analysis of the phonology, morphology, and syntax of Russian. Offered irregularly. **Prerequisite:** permission of instructor.

**37.543 Russian Classics (3)** Topic changes each semester; emphasis on life and works of major writers. May be repeated for credit in the same term; topic must be different. Usually offered every term.

**37.545 Russian Drama (3)** Topic changes each semester; emphasis on a major period or works of one outstanding Russian playwright. May be repeated for credit in the same term; topic must be different. Offered irregularly.

### **RUSSIAN: Graduate Courses**

**37.641 Advanced Russian Media and Political Translation (3)** Development and perfection of translation skills. Emphasis on contemporary political culture. Translation of materials from current Russian press: *Pravda*, *Izvestia*, *Trud*, and other papers and journals; vocabulary building; review of grammar and stylistics; demonstrations; classroom exercises; weekly home assignments; and weekly quiz. Individual translation project. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall.

**37.642 Advanced Russian Literary Translation (3)** Reading of selected original Russian and Soviet literary works. Emphasis on accurate literary translation into English. Study of idioms, difficult syntactic constructions, and stylistic levels that a good translator must master. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

**37.704 Seminar in Russian Studies (3)** Reports and critical discussion of research papers on Russian literature. May be repeated for credit in the same term; topic must be different. Usually offered every term.

### **SPANISH: Undergraduate Courses**

**36.152 Spanish, Elementary I /A (3)** Emphasis on audio-lingual skills. Drills on the main features of Spanish structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall and summer.

**36.153 Spanish, Elementary II /A (3)** Continuation of 36.152. Usually offered every spring and summer. **Prerequisite:** 36.152.

**36.252 Spanish, Intermediate I /A (3)** Audio-lingual skills as well as reading and writing. Text material is focused on Spanish cultural patterns. Usually offered every fall. **Prerequisite:** 36.153.

**36.253 Spanish, Intermediate II /A (3)** Continuation of 36.252. Usually offered every spring. **Prerequisite:** 36.252.

**37.210 Latin America: History, Art, Literature /A 3:2 (3)** The history of Latin America through the words of the writer, the brush of the painter, the pen of the cartoonist, and the lens of the photographer. The Latin (Spanish, Portuguese, and Islamic), African, and Indian cultural heritages in Latin American history, and how these strands have combined to produce a unique Latin American culture. Taught in English. Usually offered every term. **Prerequisite for General Education credit:** 23.150 or 33.140. **Note:** not open to students who have taken 00.200 U.S. in the Western Hemisphere.

**37.280 The Hispanic World 3:2 (3)** The development of Hispanic culture in three spheres: the Old World (Spain); the Latin American New World (the Spanish-speaking nations of the Western Hemisphere); and the United States (including Puerto Ricans, Mexican-Americans, Cuban-Americans and other Hispanics). The course focuses on the development of Hispanic values, customs, and institutions, and the ways they have adapted when in contact with other cultures. Taught in English. Usually offered every term. **Prerequisite for General Education credit:** 03.110 or 33.140.

**37.352 Spanish Conversation and Composition I /A (3)** Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. **Prerequisite:** 36.253 or equivalent.

**37.353 Spanish Conversation and Composition II /A (3)** Continuation of 37.352. Usually offered every spring. **Prerequisite:** 37.352 or equivalent.

**37.356 Spanish Topics (3)** Courses taught in Spanish on these topics: regions of Spain, the social scene in Latin America, customs and manners of Spain, regionalism in Latin America, survey of Latin American arts, Mexican culture, the River Plate and Chile, race in Spanish-American literature, etc.. May be repeated for credit in the same term; topic must be different. Usually offered every term. Meets with 37.656. **Prerequisite:** 37.353 or 37.354 or permission of instructor.

**37.357 Introduction to Latin American Literature (3)** A systematic survey of the historical development of Latin American literature. Reading of selected texts in the original, and their relationship to cultural, historical, political,

and social developments. This course is intended as a transition course between Spanish Conversation and Composition (37.353 or 37.355) and higher level courses. Usually offered every term. *Prerequisite:* 37.353 or 37.355.

**37.358 Introduction to Spanish Translation (3)** An introduction to the methods, techniques, and problems involved in translating Spanish into English. Emphasis is on translating general material, with some consideration of the translation of specialized material. Meets with 37.658. Usually offered every fall. *Prerequisite:* 37.353 or 37.354 or permission of instructor.

**37.359 Advanced Spanish Translation (3)** Practice and critique of translations of a range of material (general, literary, business, diplomatic, social science, and technical). Primarily from Spanish to English, with some translation from English to Spanish. Review of translation theory, methods, techniques, and problems. This course is recommended for the Certificate in Translation (Spanish). Meets with 37.659. Usually offered every spring. *Prerequisite:* 37.358 or equivalent.

**37.361 Introduction to Spanish Linguistics (3)** Introduction to basic concepts of linguistics and their application to the Spanish language: phonology, morphology, syntax, etymology. Brief survey of the historical development of the Spanish language. Dialects of Spanish and other languages spoken in the Hispanic world. Introduction to a contrastive analysis of English and Spanish. Usually offered every fall. *Prerequisite:* 37.353.

**37.450 Spanish Civilization I: Spain (3)** A study of the geography, history, arts, and literature of Spain from the beginning to the present. Usually offered every fall. *Prerequisite:* three years of college Spanish or equivalent.

**37.451 Spanish Civilization II: Latin America (3)** A study of the geography and complex process of the culture and history of the Latin American countries from the origin of the indigenous civilization to the present. Usually offered every spring. *Prerequisite:* three years of college Spanish or equivalent.

**37.491 Internship: Spanish: *Proyecto Amistad* (2-6)** An internship program offering a wide variety of experiences in the Spanish-speaking community of Washington, D.C. Placements are available in bilingual schools, legal and consumer agencies, and national and international organizations. Advanced knowledge of Spanish is not required for undergraduate students. Usually offered every term. *Prerequisite:* permission of instructor.

## **SPANISH: Graduate and Advanced Undergraduate Courses**

**37.554 Classics of Latin American Literature (3)** Topic changes each semester; emphasis on a period of Spanish-American literature and culture from the colonial era to the present. May be repeated for credit in the same term; topic must be different. Usually offered every term.

**37.559 Colloquium on Latin America (3)** Lectures, reports, and critical discussions on peoples and governments of Latin America. Cultural trends, political and economic problems, and international relations. Taught in Spanish. May be repeated for credit in the same term; topic must be different. Usually offered every term.

## **SPANISH: Graduate Courses**

**37.658 Spanish Topics (3)** Courses taught in Spanish on these topics: regions of Spain, the social scene in Latin America, customs and manners of Spain, regionalism in Latin America, survey of Latin American arts, Mexican culture, the River Plate and Chile, race in Spanish-American literature, etc. Meets with 37.356. May be repeated for credit within the same term; topic must be different. Usually offered every fall. *Prerequisite:* two years of college Spanish or equivalent.

**37.658 Introduction to Spanish Translation (3)** An introduction to the methods, techniques, and problems involved in translating from Spanish to English. Emphasis is on translating general material, with some consideration of the translation of specialized material. Meets with 37.358. Usually offered every fall.

**37.659 Advanced Spanish Translation (3)** Practice and critique of translations of a range of material (general, literary, business, diplomatic, social science, and technical). Primarily from Spanish to English, with some translation from English to Spanish. Review of translation theory, methods, techniques, and problems. This course is recommended for the Certificate in Translation (Spanish). Meets with 37.359. Usually offered every spring. *Prerequisite:* 37.658 or equivalent.

**37.661 Introduction to Spanish Linguistics (3)** Introduction to basic concepts of linguistics and their application to the Spanish language: phonology, morphology, syntax, etymology. Brief survey of the historical development of the Spanish language. Dialects of Spanish and other languages spoken in the Hispanic world. Introduction to a contrastive analysis of English and Spanish. Usually offered every fall.

**37.691 Internship: Spanish: *Proyecto Amistad* (2-6)** An internship program offering a wide variety of experiences in the Spanish-speaking community of Washington, D.C. Placements are available in bilingual schools, legal and consumer agencies, and national and international organizations. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* permission of instructor.

**37.705 Seminar in Spanish and Latin American Studies (3)** Reports and critical discussion of research papers on Spanish and Latin American literature. May be repeated for credit in the same term; topic must be different. Usually offered alternate years.

## **Computer Science and Information Systems**

### **Computer Science**

#### **Undergraduate Courses**

**40.260 Introduction to Computing /N (4)** A general introduction to computing for students who wish to understand how computers work, how computers affect their lives, and how computers are used in students' own disciplines. Basic programming skills are developed by the presentation and use of Pascal. Usually offered every term.



**Prerequisite:** 41.150 or three years of high school mathematics.

**40.280 Introduction to Computer Science I /N (4)** Problem solving and algorithm development. Structured programming in Pascal. Basic data types and canonical structures; arrays and subprograms; recursion. Social implications of computing. Elementary applications from business and science. Usually offered every term. **Prerequisite:** 41.150 or equivalent.

**40.281 Introduction to Computer Science II /N (3)** Continuation of problem solving in Pascal. Emphasis on larger programs built from modules. Introduction to abstract data structures: stacks, queues, graphs and trees and their implementations and associated algorithms. Elementary numerical methods. Usually offered every term. **Prerequisite:** 40.260 with a B or higher or 40.280.

**40.282 Assembly-Language Programming (4)** Basic concepts of computer architecture and organization. Assembly-language programming; instruction formats, addressing techniques, macros, and input/output. Program segmentation and linkage. The assembly process. Usually offered every term. **Prerequisite:** 40.281 or permission of the department.

**40.320 Introduction to File Design (3)** An examination of the structure of files and of the input/output facilities. Topics include file usage, file design, file organization, media limitations, and data definition statements. The IBM environment is stressed; other environments are discussed as time permits. Usually offered every fall. **Prerequisite:** 40.281 and 40.282.

**40.330 Organization of Computer Systems (3)** Logical circuit design, integrated circuits and digital functions, data representation, register transfer operations and microprogramming, basic computer organization, the central processor, and arithmetic operations. Usually offered every term. **Prerequisite:** 40.281 and 40.282.

**40.336 Pascal and Elementary Data Structures (3)** Problem solving in Pascal, including string processing, use of pointers, files, and recursion. Introduction to stacks, queues, linked lists, binary trees, searching, and sorting algorithms. This is a course for students with the ability to program well in a high-level programming language other than Pascal. Usually offered every fall. **Prerequisite:** 55.235. **Note:** not open to students who have received credit for 40.280 or 40.281.

**40.340 Data Structures and Algorithms (3)** Basic techniques of design and analysis of efficient algorithms. Implementation and manipulation of data structures, including linked lists, stacks, queues, trees, and graphs. Memory management. Internal and external searching and sorting. Usually offered every term. **Prerequisite:** 40.281 and 40.282.

**40.341 Organization of Programming Languages (3)** Survey of desirable features and specifications of programming languages by investigation of data types, control structures, data flow, and run-time behavior of several languages, such as Prolog, Smalltalk, LISP, Ada, etc. Basic elements of compiling and interpreting. At least one non-Pascal-like language (such as LISP) is studied in detail.

Usually offered every term. **Prerequisite:** 40.282 and 40.340.

**40.345 Software Engineering (3)** Presents techniques and tools in software design and development and applies them to the design and implementation of a large software system. Topics include: the software life cycle—requirements, design, implementation, testing and debugging, maintenance and documentation; software reliability, portability, and expandability; and user interface. A team project consists of all different phases of the software life cycle. Usually offered every spring. **Prerequisite:** 40.340 or permission of instructor.

**40.350 Introduction to Discrete Structures (3)** Introduction to mathematical topics required in computer science, such as graphs, sets and relations, logic, and recurrence. Usually offered every spring. **Prerequisite:** 40.281 and either 41.211 or 41.221.

**40.365 Introduction to Operating Systems (3)** A survey of the resource-management strategies used in contemporary operating systems. Topics include the management of primary storage, processors, processes, peripheral devices, files, and other common subsystems. Usually offered every spring. **Prerequisite:** 40.330, 40.340, and 42.202.

**40.382 Automata, Languages, and Computability (3)** Introduction to the theoretical concepts underlying computing. Finite state, push-down, and linear bounded automata. Regular expressions, context-free and context-sensitive grammars. Turing machines and computability, universal machines, computable and non-computable functions, the halting problem. Usually offered every fall. **Prerequisite:** 40.350 and 40.341.

**40.390 Independent Reading Course in Computer Science (1-6)**

**40.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**40.460 Introduction to Numerical Methods (3)** Introduction to numerical algorithms fundamental to scientific computation. Includes discussion of error, solution of polynomial equations, and solution of systems of algebraic equations. Usually offered every spring. **Prerequisite:** 40.280 and 41.310.

**40.490 Independent Study Project in Computer Science (1-6)**

## Graduate and Advanced Undergraduate Courses

**40.510 Legal Issues in Computing (3)** Copyright, patent, contract, tort, antitrust, privacy, and telecommunications issues. Usually offered every fall. **Prerequisite:** some knowledge of computers.

**40.520 Algorithms and Data Structures (3)** Design and analysis of efficient algorithms. Implementation and manipulation of data structures, including linked lists, stacks, queues, trees, and graphs. Memory management. Internal and external searching and sorting. Usually offered every term. **Prerequisite:** 40.281 and 40.282. **Note:** not open to undergraduate students with credit in 40.340 Data Structures and Algorithms.

**40.521 Design and Organization of Programming Languages (3)** Study of desirable features and specifications of programming languages by investigation of data types, control structures, data flow, and run-time behavior of several languages, such as Prolog, Smalltalk, LISP, Ada, etc. At least one non-Pascal-like language (such as LISP) is studied in detail. Elements of compiling and interpreting. Usually offered every term. *Prerequisite:* graduate standing and 40.282. 40.520 is recommended. Note: not open to undergraduate students with credit in 40.341.

**40.540 Computer System Organization and Programming (3)** Investigation of the structure of a modern computing system. Alternative computer organizations are discussed so that students may appreciate the range of possible design choices. Assembly, linking, and loading are presented in detail. The relation between system software and computer organization is discussed. Usually offered every fall. *Prerequisite:* 40.282 and graduate standing. Note: not open to undergraduate students with credit in 40.330.

**40.541 Computer Architecture (3)** Presents the essential notions of computer system design by investigating a wide range of historic, existing, and proposed computer architectures. Topics include meta representation, data representation, instructions and addressing, interpretation and control, memory hierarchies, specialized computers, multiple computers, reliability, and system-design evaluation. Usually offered every spring. *Prerequisite:* 40.540 or 40.330.

**40.546 Introduction to Computer Networks (3)** An introduction to the basic concepts of computer networks. The architecture of data communication systems, the seven-layer model of a network, and the physical, data link, network, transport, and session layers are explored. Protocol algorithms are considered for the implementation of the various network layers. Usually offered alternate springs. *Prerequisite:* 40.520 (or 40.340), 40.540 (or 40.330), and 42.202.

**40.560 Microcomputer Architecture (3)** Fundamental concepts of hardware and software systems for microprocessors and micro- and minicomputers. Topics include digital logic, computer arithmetic, input/output, internal and external memory, peripheral device interfaces, and applications. Usually offered every fall. *Prerequisite:* 40.540 or 40.330.

**40.565 Operating Systems (3)** Historical background. Operating system functions and concepts: processes; processor allocation; memory management; virtual memory; I/O and files; protection; and design and implementation. Several existing operating systems are discussed. A group project to design and implement a small operating system is usually required. Usually offered every spring. *Prerequisite:* 40.520 and 40.540 (or 40.330 and 40.340).

**40.566 Introduction to Compilers (3)** Design and implementation of compilers. Topics include lexical analysis, syntactic analysis, code generation and optimization, and error recovery. A term project to design and implement a compiler for a small programming language is usually required. Usually offered every spring. *Prerequisite:* 40.521 (or 40.341) and 40.540 (or 40.330).

**40.568 Artificial Intelligence (3)** Application of computers to tasks usually thought to require human intelligence, such as game playing, problem solving, learning, pattern recognition, natural language understanding, and expert systems. Usually offered every spring. *Prerequisite:* 40.520 (or 40.340) and 40.521 (or 40.341).

**40.570 Data Management Systems (3)** A survey of the history, principles, design, and applications of database management systems. Topics: basic concepts; storage; the relational, hierarchical, and network approaches; security and integrity; distributed databases; concurrency control. Several existing data-management systems are studied. A project involving design of a small database or part of a small DBMS is usually required. Usually offered every fall. *Prerequisite:* 40.520 (or 40.340) and 40.540 (or 40.330).

**40.582 Formal Languages and Automata (3)** Chomsky hierarchy of grammars. Finite state acceptors and transducers and regular expressions. Push-down automata and linear bounded automata. Turing machines and the halting problem. The notion of effective computability. Usually offered every fall. *Prerequisite:* 40.521 (or 40.341) and 40.350 or permission of instructor.

**40.584 Computer Graphics (3)** Overview of display technology: cathode ray tubes (CRTs), digital control of CRTs, other displays, applications, interactive devices, hard copy, and graphics system design. Graphics software: high-level languages for graphics, programming interactive devices, display files, design of graphics systems, transformations in two and three dimensions, gray scales, color, cropping, and hidden lines. Usually offered every spring and summer. *Prerequisite:* 40.520 (or 40.340), 40.540 (or 40.330), 41.310 is recommended.

**40.590 Independent Reading Course in Computer Science (1-6)**

#### Graduate Courses

**40.620 Design and Analysis of Algorithms (3)** Study of algorithms by category, such as divide-and-conquer, dynamic programming, state space search, computational complexity, and NP-complete problems. Analysis of practical techniques. Usually offered every spring. *Prerequisite:* 40.520.

**40.630 Expert Systems (3)** The course presents techniques and tools for expert-systems design and development. Topics include expert system components, methods for building expert systems, knowledge acquisition, knowledge representation, knowledge processing, and handling uncertainty. Expert system shells (such as Exsys Professional and Level 5) are used for developing working expert systems for different applications. Usually offered every fall and alternate summers. *Prerequisite:* 40.520 and 40.521 or permission of instructor.

**40.646 Computer Network Design and Analysis (3)** Design and analysis problems relating to computer communications networks. Capacity assignment techniques are applied to different network topologies. Queuing theory is used to allocate limited network resources. Network design algorithms, routing, and flow control techniques are investigated. Usually offered every spring. *Prerequisite:* 40.546 and 41.501 or permission of instructor.

**40.690 Independent Study Project in Computer Science (1-6)**

**40.692 Cooperative Education Field Experience (3-6)**  
See description under Cooperative Education in this publication.

**40.700 Seminar in Computer Science (3)** May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* student must have taken the comprehensive examination.

**40.797 Master's Thesis Seminar in Computer Science (1-6)**

**NOTE:** for Information Systems courses, see 55.xxx.

## Mathematics and Statistics

### Mathematics

#### Undergraduate Courses

**Note:** Students should consult the department for advice and placement testing for appropriate mathematics and statistics courses.

Courses 41.021, 41.022, and 41.023 are intended for students with inadequate preparation for other courses in mathematics. These courses do not carry credit toward graduation, nor do they fulfill the mathematics requirement for any degree program. Credit equivalents are listed only for the purpose of determining full-time student status.

**41.021 Basic Arithmetic (1)** No academic credit is received for this course.

**41.022 Basic Algebra (3)** An Introduction to algebra. Topics include a review of integer and rational numbers; solving linear equations in one or two variables; word problems; polynomials and rational expressions; radicals; the quadratic formula; and some graphing techniques. Usually offered every term. **No academic credit is received for this course.**

**41.023 Intermediate Algebra (1)** A review of the properties of real numbers, solving linear equations in one and two variables, polynomials and functions, fractional expressions, exponents, powers and roots, quadratic equations, and exponential and logarithmic functions. Usually offered every term. **No academic credit is received for this course.**

**41.150 Finite Mathematics (3)** Review of algebra, sets, linear equations and inequalities, nonlinear inequalities, interest problems, systems of linear equations, linear programming, functions and graphs, and elementary data analysis. No credit toward mathematics major. Usually offered every term. *Prerequisite:* three years of high school mathematics or equivalent.

**41.170 Precalculus Mathematics /N (3)** Fundamentals of algebraic, logarithmic, exponential, and trigonometric functions for students planning to take 41.221. 41.150 and 41.170 may not both be used to fulfill the mathematics requirements for any major program. Usually offered every term. *Prerequisite:* three years of high school mathematics or 41.150 or permission of instructor.

**41.211 Applied Calculus I /N (4)** Continuity, limits, differentiation, and integration. Applications to biological, social, and environmental sciences and business. No credit toward a mathematics, mathematical statistics, or applied mathematics major, but together with 41.212 meets calculus requirement for applied statistics majors. Students may not receive credit toward a degree for both 41.211 and 41.221. Usually offered every term. *Prerequisite:* 41.150 or permission of instructor.

**41.212 Applied Calculus II /N (3)** Calculus of several variables, matrices, series, and differential equations. Applications to biological, social, and environmental sciences and business. No credit toward mathematics, mathematical statistics, or applied mathematics major, but together with 41.211 meets requirement for applied statistics or computer science majors. Students may not receive credit toward a degree for 41.212 if they have received credit for 41.222 or 41.223. Usually offered every spring. *Prerequisite:* 41.211 or 41.221.

**41.221 Calculus I /N (4)** Real numbers; coordinate systems; functions; limits and continuity; differentiation and applications; trigonometric functions; indefinite and definite integration and applications; fundamental theorem of integral calculus. Students may not receive credit toward a degree for both 41.211 and 41.221. Usually offered every term. *Prerequisite:* 41.170 or four years of high school mathematics.

**41.222 Calculus II /N (4)** Techniques of integration, calculus of exponential and logarithmic functions, infinite series, power series representations, and analytic geometry. Students may not receive credit for 41.222 if they have taken 41.212. Usually offered every term. *Prerequisite:* 41.221.

**41.223 Calculus III (4)** Vectors, functions of several variables, partial differentiation, and multiple integrals. Usually offered every term. *Prerequisite:* 41.222.

**41.310 Linear Algebra (3)** Vector spaces, systems of linear equations, solutions by matrices, determinants, linear transformations, and algebraic forms. Usually offered every spring and summer. *Prerequisite:* 41.212 or 41.222 or taken concurrently with 41.222.

**41.321 Differential Equations (3)** First-order equations; linear equations of higher order; solutions in series; separation of variables in partial differential equations and Fourier series; applications to mechanics, electrical circuits, and biology; topics from numerical methods. Usually offered every fall and summer. *Prerequisite:* 41.223, which may be taken concurrently.

**41.322 Advanced Calculus (3)** A rigorous development of one and several variable calculus. Topics include: mathematical induction, structure of the real numbers, theory of continuity, differentiability, Riemann integration, uniform convergence, the implicit and inverse function theorems, Jacobian and Hessian matrices, and the theorems of Green, Gauss, and Stokes. Usually offered every spring. *Prerequisite:* 41.223.

**41.390 Independent Reading Course in Mathematics (1-6)**

**41.392 Cooperative Education Field Experience (3-0)** See description under Cooperative Education in this publication.

**41.490 Independent Study Project in Mathematics (1-6)**

### Graduate and Advanced Undergraduate Courses

**41.501 Probability (3)** Algebra of sets; probability in discrete sample spaces; combinatorial analysis; random variables; binomial, Poisson, normal, and other distributions; and applications. Usually offered every spring. Not open for credit to graduate students in mathematics or statistics. *Prerequisite:* 41.212 or 41.222.

**41.510 Geometry (3)** Euclidean and non-Euclidean (spherical, elliptic and hyperbolic) geometries from axiomatic and analytic points of view. Topics include: Isometries, transformation groups, symmetry groups, quadratic forms, projective geometry, as well as some historical background. Usually offered alternate falls. *Prerequisite:* 41.310 or equivalent.

**41.512, 41.513 Introduction to Modern Algebra I, II (3), (3)** Groups, rings, vector spaces and modules, fields, and Galois theory. 41.512 usually offered every fall; 41.513 usually offered every spring. *Prerequisite:* 41.310 or permission of instructor.

**41.515 Number Theory (3)** Divisibility, fundamental theorem of arithmetic, congruences, arithmetic functions, Diophantine equations, quadratic residues, sums of squares, and partitions. Usually offered alternate falls (odd years). *Prerequisite:* 41.222.

**41.520, 41.521 Introduction to Analysis I, II (3), (3)** Analysis in Euclidean and metric spaces, point sets, completeness, convergence, continuity, differentiability, and integration. 41.520 usually offered every fall; 41.521 usually offered every spring. *Prerequisite:* 41.322 or permission of instructor.

**41.540 Topology (3)** Topological spaces, continuity, compactness, connectedness, and metric spaces. Usually offered alternate springs (even years). *Prerequisite:* 41.223 and 41.310.

**41.550 Complex Variables for Applications (3)** Cauchy's theorem and integral formulas. Residue theorem and contour integration. Conformal mapping. Fourier series, integrals, transforms, and inverse transforms. Laplace transform methods. Usually offered every fall. *Prerequisite:* 41.321 or 41.223.

**41.551 Mathematics for Physics (3)** Oscillatory systems and normal modes. Eigenvalues and diagonalization of matrices. Wave equation. Vibrating strings and membranes. Orthogonal functions. Heat equation. Laplace's equation. Green's function. Variational methods. Tensors. Usually offered every spring. *Prerequisite:* 41.550.

**41.560 Numerical Analysis: Basic Problems (3)** Computer arithmetic and error analysis in computation, matrix decomposition methods in solving systems of linear equations and linear least squares problems, polynomial approximation and polynomial data fitting, iterative algorithms for solving nonlinear equations, and numerical differentiation and integration. Usually offered every

spring. *Prerequisite:* 40.280, 41.310, and 41.322, or permission of instructor.

**41.574 Theory of Probability (3)** Random variables, distribution functions, generating and characteristic functions, special distributions and statistics, and limit theorems. Usually offered every fall. *Prerequisite:* 41.223 and 41.501 or permission of instructor.

**41.580 Topics in Mathematics (3)** Topics include the following: foundations/set theory/logic, matrix theory, algebraic topology, measure and integration, functional analysis, ring theory, history of mathematics, modern geometry, and advanced modern linear algebra. May be repeated for credit; topic must be different. Offered irregularly. *Prerequisites* announced for each offering.

**41.585 Mathematics Education (3)** Curriculum construction and program design, instructional effectiveness, and methods and technology for teaching mathematics. Different approaches for students with a variety of mathematical and cultural backgrounds. Required of all students in mathematics education. Usually offered every fall. *Prerequisite:* 41.223.

**41.590 Independent Reading Course in Mathematics (1-6)**

### Graduate Courses

**41.625 Calculus of Variations (3)** Extremization of functionals. Euler, Legendre, Weierstrass, and Jacobi necessary conditions. Sufficient conditions for weak and strong extrema. Extremal fields and Hilbert's invariant integral. Isoperimetric problems and inequalities. Direct methods. Usually offered alternate falls (odd years). *Prerequisite:* 41.551.

**41.630 Measure and Integration (3)** Measurability, integration, and convergence theorems.  $L_p$  spaces, modes of convergence, differentiation, and introduction to probability. Usually offered alternate falls (odd years). *Prerequisite:* 41.521.

**41.654 Partial Differential Equations of Mathematical Physics I (3)** Second-order hyperbolic equations, characteristics, Cauchy and Goursat problems, Riemann's method, and quasilinear equations. Legendre transformation, wave equation in  $n$ -dimensions, spherical means, and Hadamard's method. Usually offered alternate falls (even years). *Prerequisite:* 41.551.

**41.655 Partial Differential Equations of Mathematical Physics II (3)** Second-order elliptic, parabolic, and mixed equations, problems of Dirichlet and Neumann, Green's function, potentials of volume and surface distributions, diffusion phenomena, and Tricomi's equation. Usually offered alternate springs (odd years). *Prerequisite:* 41.654.

**41.674 Advanced Probability (3)** Measure theoretical treatment of probability, convergence of random variables, conditional probability and expectation, laws of large numbers, infinitely divisible distributions, general central limit Theorem. Usually offered alternate springs. *Prerequisite:* 41.574.

**41.685 Practicum in Mathematics Education (3)** Internships in cooperating school systems, colleges, and other organizations involving teaching; strategic planning

and implementation. Required of all students in the Ph.D. program in mathematics education. May be repeated for credit but not in the same term; topic must be different. Usually offered every spring.

**41.690 Independent Study Project in Mathematics (1-6)**

**41.692 Cooperative Education Field Experience (3-6)**  
See description under Cooperative Education in this publication.

**41.790 Research Seminar in Mathematics Education (3)** In-depth exploration of current issues in mathematics education. A research paper and presentation are required. Course required of all students in the Ph.D. program in mathematics education. May be repeated for credit, but not within the same term; topic must be different. Usually offered every spring.

**41.797 Master's Thesis Seminar in Mathematics (1-6)**  
Usually offered every term.

**41.799 Doctoral Dissertation Seminar in Mathematics (1-12)** Usually offered every term.

## Statistics

### Undergraduate Courses

**42.202 Basic Statistics /N (4)** Classification of data, averages, dispersion, probability, frequency distributions, confidence intervals, tests of significance, nonparametric techniques, simple regression, and correlation. A package of computer programs is used to demonstrate various statistical techniques. Separate sections are available for biology, business, economics, psychology, education, sociology, and government majors. Usually offered every term. *Prerequisite:* 41.150 or permission of department.

**42.300 Business and Economic Statistics /N (3)** Estimation, inference, multiple regression, and correlation. Elementary decision theory. Usually offered every term. *Prerequisite:* a grade of C or higher in 42.202, or permission of department. *Note:* not open for credit to students who have taken 42.302 or 42.514.

**42.302 Intermediate Statistics (3)** Acquisition and development of statistical methods that are used commonly throughout the social sciences, the physical sciences, and governments for research as well as for routine planning and forecasting. Methods include techniques for estimation and inference with qualitative and quantitative data focusing on regression, correlation, analysis of variance and nonparametric statistics. Usually offered every term. *Prerequisite:* a grade of C or higher in 42.202, or permission of department. *Note:* not open for credit to students who have taken 42.300 or 42.514.

**42.390 Independent Reading Course in Statistics (1-6)**

**42.392 Cooperative Education Field Experience (3-9)**  
See description under Cooperative Education in this publication.

**42.490 Independent Study Project in Statistics (1-6)**

### Graduate and Advanced Undergraduate Courses

**42.502 Introduction to Mathematical Statistics (3)** Probability, probability distributions, sampling, sampling distributions, and introduction to the theory of point estimation and statistical inference, including confidence intervals and hypothesis testing. Not open for credit to graduate students in mathematics or statistics. Usually offered every fall. *Prerequisite:* 41.212 or equivalent and 41.501, or permission of instructor.

**42.504, 42.505 Actuarial Mathematics I, II (3), (3)** Advanced mathematics of finance and insurance, utility theory, risk theory, survival distributions, life insurance and annuities, valuation theory, pension plans and funding, and related topics. 42.504 usually offered every fall; 42.505 usually offered every spring. *Prerequisite:* 41.223, 40.460, 41.501, 42.502, or permission of department.

**42.510, 42.511 Theory of Sampling I, II (3), (3)** Mathematical development of basic principles of survey design, including methods for determining expected value, bias, variance, and mean square error; simple random, systematic, stratified, cluster, multistage, and double sampling; unbiased, ratio, regression, and composite estimation; optimum allocation of resources; controlled and other nonsimple methods of selection; introduction to measurement error; and comparison of alternative designs. 42.510 usually offered alternate falls; 42.511 usually offered alternate springs. *Prerequisite:* 42.502 or equivalent.

**42.514 Statistical Methods (3)** Averages, dispersion, probability, sampling, and approach to normality; simple and multiple regression; tests and confidence intervals for means, proportions, differences, and regression coefficients; nonparametric statistics; and analysis of variance. Usually offered every term. *Prerequisite:* 42.202 or equivalent. *Note:* not open for credit to students who have taken 42.300; no credit for a major in mathematics or statistics.

**42.515 Regression (3)** Simple and multiple regression, least squares, curve fitting, graphic techniques, and tests and confidence intervals for regression coefficients. Usually offered every fall and summer. *Prerequisite:* 42.514 or equivalent.

**42.516 Design of Experiments (3)** Design and analysis of the results of balanced experiments, simple analysis of variance, components of variance, analysis of covariance, and related topics. Usually offered every spring. *Prerequisite:* 42.514 or equivalent.

**42.517 Special Topics in Statistical Methodology (3)** Alternating topics in statistics treated from an applied viewpoint. Topics include sampling, multivariate techniques, factor analysis, and time series. May be repeated for credit, but not within the same term; topic must be different. Usually offered alternate summers (odd years). *Prerequisite:* 42.514 or equivalent.

**42.519 Nonparametric Statistics (3)** Application of nonparametric techniques in the analysis of social-science data, with emphasis on tests appropriate for data having interval, nominal, and ordinal scales. Usually offered alternate falls (even years). *Prerequisite:* 42.514 or permission of instructor.

**42.520 Applied Multivariate Analysis (3)** Introduction to multivariate analysis emphasizing statistical applications. Topics include matrix theory, multivariate distributions, tests of hypotheses, multivariate analysis of variance, principal components, discriminant analysis, canonical correlation, multivariate regression, and related topics. Usually offered alternate falls (odd years). *Prerequisite:* 42.514 or equivalent.

**42.521 Analysis of Frequency Data (3)** Chi-square tests, contingency tables ( $2 \times 2$ ,  $r \times c$ , and multidimensional), loglinear models, and other special models. Usually offered alternate springs (even years). *Prerequisite:* 42.514 or equivalent.

**42.522 Time-Series Analysis (3)** An introduction to the theory of time-dependent data. The analysis includes modeling, estimation, and testing; alternating between the time domain; using autoregressive and moving average models and the frequency domain; and using spectral analysis. Usually offered alternate springs (odd years). *Prerequisite:* 42.515 or 42.520 or permission of instructor.

**42.523 Factor Analysis (3)** Introduction to factor analysis emphasizing applications of factor techniques. Topics include factor analysis models, matrix and geometric concepts, communality, transformations, direct factor solutions, derived factor methods, rotations, and find factor scores. Usually offered alternate summers (even years). *Prerequisite:* 42.514 or equivalent.

**42.524 Data Analysis (3)** An introduction to the topics of exploratory data analysis, including resistant or robust techniques, study of residuals, transformations, graphical displays, and related topics. Usually offered every fall. *Prerequisite:* 42.515 or 42.520 or equivalent.

**42.525 Statistical Software (3)** Introduction to the use of the SAS language to prepare, modify, and analyze data, interpret output and final preparation of results. Emphasis on practical programming principles and use of built-in procedures in both personal computer and main frame environments. Comparisons with other programming languages. Usually offered every spring. *Prerequisite:* 42.514 or two statistics courses, or permission of instructor.

**42.530, 42.531 Mathematical Statistics I, II (3), (3)** Distribution and functions of random variables, generating functions, order statistics, point estimation, maximum likelihood, confidence intervals, tests of hypotheses (Neyman-Pearson, likelihood ratio, etc.), linear regression, and analysis of variance. 42.530 usually offered every fall; 42.531 usually offered every spring. *Prerequisite:* 41.223, 42.502 or equivalent, and 41.310.

**42.584 Introduction to Stochastic Processes (3)** Introduction to random walks, Markov chains and processes, Poisson processes, recurrent events, birth and death processes, and related topics. Usually offered every spring. *Prerequisite:* 41.501 or 42.530 or 41.574.

**42.590 Independent Reading Course in Statistics (1-6)**

## Graduate Courses

**42.600 Advanced Mathematical Statistics (3)** Theory of estimation, properties of estimators, large-sample properties and techniques, and applications. Usually offered

every fall. *Prerequisite:* 42.531 and 41.574 (may be taken concurrently).

**42.601 Topics in Advanced Probability and Statistics (3)** Mathematical foundations of statistical theory. Special topics in probability and mathematical statistics. May be repeated for credit, topic must be different. Usually offered every spring. *Prerequisite:* 42.600.

**42.610 Statistical Inference I: Estimation (3)** The mathematical foundations of statistical inference are discussed. Topics involving the Theory of Estimation include: minimum risk-, Bayes-, minimax-, and equivariant estimation; decision theory; and large sample behavior. Usually offered alternate falls. *Prerequisite:* 42.600.

**42.611 Statistical Inference II: Testing (3)** This course continues the work begun in 42.610, presenting the mathematical foundations of statistical inference with regard to hypothesis testing. Topics include uniform most powerful tests, unbiased tests, invariant tests, and confidence sets. Usually offered alternate springs. *Prerequisite:* 42.610.

**42.620, 42.621 Multivariate Analysis I, II (3), (3)** Multivariate normal distribution, Hotelling's  $T^2$ , Wilks's likelihood ratio criterion, other test statistics, classification problems, principal components, canonical correlation, general multivariate regression and experimental designs, and related topics. 42.620 usually offered alternate falls; 42.621 usually offered alternate springs. *Prerequisite:* 41.510 and 42.600 (may be taken concurrently).

**42.640 Statistical Computing (3)** An introduction to numerical analysis, computer science, and statistical theory as they apply to random number generation, the Monte Carlo method, simulations, and other aspects of statistical computing. Usually offered every spring. *Prerequisite:* 40.520, 41.560, and 42.531.

**42.670, 42.671 Linear Estimation I, II (3), (3)** General linear hypothesis, least-squares estimation, Gauss-Markov theorem, regression, analysis of variance, multiple comparisons, analysis of covariance, factorial designs, randomized blocks, other experimental designs, and effects of departures from assumptions. 42.670 usually offered alternate falls; 42.671 usually offered alternate springs. *Prerequisite:* 41.510 and 42.600 (may be taken concurrently).

**42.690 Independent Study Project in Statistics (1-6)**

**42.691 Internship in Statistics (1-6)** Individual placement and supervision of an internship in an approved organization. Activities undertaken must involve statistical analysis, methodology, or theory. Usually offered every term. *Prerequisite:* permission of instructor.

**42.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**42.797 Master's Thesis Seminar in Statistics (1-6)**

**42.798 Seminar in Statistics (1)** Topics chosen from recent research in statistics. Students are required to investigate advances in statistical theory and application as reported in recent journals and conference proceedings. Written reviews and oral presentations are required. May be repeated for credit, but not within the same term; topic

must be different. Usually offered every fall. *Prerequisite:* permission of department.

#### **42.799 Doctoral Dissertation Seminar in Statistics (1-12)**

## **Health and Fitness**

### **Undergraduate Courses**

**49.100 Beginning Swimming (1)** Designed for students who are unable to maintain themselves in deep water. Students overcome the fear of the water and learn to feel at ease in aquatic environments while learning basic swimming skills. Usually offered every term.

**49.101 Intermediate Swimming (1)** Instruction in swimming skills and techniques for students interested in perfecting their swimming strokes, endurance, and associated aquatic skills. Usually offered every term. *Prerequisite:* 49.100 or ability to pass beginner's test.

**49.102 Lifesaving/Lifeguard Training (2)** Development of safety skills, use of lifesaving equipment, and techniques of swimming rescues. Students meeting American Red Cross requirements earn A.R.C. Life-Saving Certificate. Usually offered every fall. *Prerequisite:* 49.270 or valid First Aid and CPR certification, and 49.101 or permission of instructor.

**49.120 Beginning Martial Arts (1)** Introductory course for the beginner to develop the basic skills of the martial arts. Physical and mental discipline are stressed, as well as self-defense techniques. Flexibility, balance, endurance, and strength are improved. The course prepares the student to advance to the Tae Kwon Do rank of Yellow Belt. Usually offered every term.

**49.121 Intermediate Martial Arts (1)** Continuation of the development of the martial arts skills. Additional techniques and forms are presented. The course prepares the student to advance to the Tae Kwon Do rank of Green Belt. Usually offered every term. *Prerequisite:* 49.120 or permission of instructor.

**49.122 Advanced Martial Arts (2)** For the dedicated student seeking to further develop the skills and techniques of the martial arts to a more advanced degree. A more rigorous level of training than 49.121 is required. Attainment of belt ranking may vary. Usually offered every spring. *Prerequisite:* 49.121 or permission of the instructor.

**49.125 Personal Defense (1)** Introduction to the basic principles of self-defense. Emphasis is placed on perfecting the basic skills and techniques in protecting oneself. Physical conditioning, strength, and flexibility are attained, along with the understanding of the legal and psychological aspects involved in personal defense. Usually offered every spring.

**49.130 Walking and Jogging (1)** Designed for all levels of walkers and joggers. Enables individuals to design their own programs based upon goals such as cardiovascular conditioning, muscle toning, weight loss, and long-term health. Usually offered every term.

**49.140 Fencing (1)** A general overview of the techniques, strategies, and psychology of foil fencing, with an emphasis on the historic perspectives and traditions from a variety

of cultures. There is a dual emphasis on developing physical skills and studying the implementation of tactics in situations in the world of fencing. Usually offered every term.

**49.150 Golf (1)** Designed for the beginning player. Skill work consists of grip, stance, and swing techniques for putting, short irons, middle irons, and woods. Special emphasis is placed on rules, terminology, and etiquette. Usually offered every term.

**49.151 Advanced Golf (2)** For players with basic skills and limited playing experience. Weekly play at local courses improves skills, club selection, strategies, and course management. Student is responsible for equipment, transportation, and green fees. Usually offered every term. *Prerequisite:* 49.150 or permission of instructor.

**49.170 Recreational Activities (1-3)** Development of skills, techniques, and knowledge of selected individual, dual, and team activities with emphasis on seasonal sports. Content varies. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**49.179 Tennis Skills Workshop for the Novice (1)** Designed for players with diversified experience, with emphasis on learning and developing the strokes and strategies necessary for various levels of play. Instruction includes biomechanics and video tape analysis. Usually offered every summer.

**49.180 Beginning Tennis (1)** Designed for beginners who have had little or no playing experience or formal instruction. Students learn the forehand, backhand, serve, volley, history, scoring, rules, and basic strategy. Usually offered every term.

**49.181 Intermediate Tennis (1)** Designed for the student who can execute the basic strokes and has some playing experience. Instruction includes basic stroke refinement, adding spin to the strokes, and strategy in singles and doubles play. Usually offered every term. Qualifying pre-test required. *Prerequisite:* 49.180 or permission of instructor.

**49.182 Advanced Tennis (2)** For the player who has a sound understanding of the game and can play at a 4.0 USTA rating. Instruction includes drills, physical and psychological fitness, imagery, biomechanics, match play and corrective stroke techniques. Usually offered every term. *Prerequisite:* 49.181 or permission of instructor.

**49.185 Racquetball/Squash (1)** Designed to develop the fundamental skills, strategies, and techniques of racquetball and squash. Usually offered every term.

**49.193 Aquatic Fitness/Water Aerobics (2)** Develops cardiovascular fitness through aquatic activities. Emphasis on current theories of exercise physiology in personal conditioning programs. Suggested alternative to weight bearing forms of exercise. Topics include: body mechanics, hydrodynamics, program design and water safety. Usually offered every term.

**49.195 Principles and Techniques of Weight Training (2)** An overview of muscle anatomy, exercise physiology, and biomechanics as they apply to the development of muscle strength. Systems and principles of weight training. Practical experience in strength development through

a progressive resistance program. Usually offered every term.

**49.197 Aerobic Dance (2)** Using aerobic activity to develop and maintain body awareness in five major areas: cardiovascular and muscular endurance, flexibility, muscular strength, and promotion of ideal body composition through activity with music. The goal is the reduction of emotional tension, greater productivity, improved performance, formation of fat-burning enzyme, and a healthier cardiovascular system. Usually offered every term.

**49.200 Lifetime Health and Fitness /S (3)** The physiological, sociological, and psychological aspects of fitness and health are introduced. Emphasis is placed on developing self-responsibility for total wellness. Students will participate in fitness activities and classroom instruction/discussions. Usually offered every term.

**49.209 Growth and Development Throughout the Life Cycle (3)** Provides an overview of the physical, psychological, and sociological development of the individual. Integrates several disciplines in examining the human life cycle from "the cradle to the grave." Usually offered every fall.

**49.210 SCUBA (2)** The course provides a balanced curriculum in skin and SCUBA diving, providing practical skill development in the pool and a thorough grounding in the physics, physiology, technology, and history of sport diving. Student responsible for cost of personal equipment. Usually offered every term. *Note:* For certification, must be taken with 49.211.

**49.211 SCUBA Certification Laboratory (1)** Includes five open-water dives in salt and fresh water, additional equipment training, and an introduction to boat as well as shore staging for sport diving. Basic rescue techniques are introduced. The laboratory, in conjunction with the standard course, is sufficient to qualify the student as a certified basic diver under the standards of a nationally recognized certifying organization. Usually offered every term. *Prerequisite:* must be taken concurrently with 49.210.

**49.220 Basic Rock Climbing (2)** Combination of classroom instruction and climbing local rock formations provides physical conditioning and skills required for safe, successful climbing experience. Usually offered every term.

**49.230 High-Level Conditioning (2)** Improvement of cardiovascular and muscular fitness through various aerobic activities. Students develop personal conditioning programs. Classroom discussions include: diet theory, circuit training, flexibility, and specificity of exercise. Pre/post fitness assessment tests are administered. Usually offered every term.

**49.250 Strategies in Stress Reduction (3)** The nature and causes of stress, its effect on the human body, and both cognitive behavioral approaches as well as relaxation techniques to control it. The course offers a holistic approach to stress management through a combination of lecture and laboratory on skills in relaxation. Methods include: deep breathing, mental imagery, progressive muscular relaxation, muscle massage, art therapy, journal writing, value assessment and clarification, physical exercise, and meditation. Usually offered every term.

**49.280 Aerobic Dance-Exercise Instructor's Workshop (2)** Designed to enable the student to teach safe, and effective aerobic dance-exercise to multi-level classes and to prepare the student to successfully complete the International Dance-Exercise Association Certification examination. Usually offered every spring. *Prerequisite:* 49.197 or permission of Instructor.

**49.270 First Aid, CPR, and Medical Emergencies /S (3)** Training in first aid and CPR (Cardio-Pulmonary Resuscitation). Determination of the emergency and the course of action for rendering appropriate care. Information on the prevention, and care of wounds, application of dressings and bandages, choking procedures, musculoskeletal system injuries, burns, heat and cold injuries, emergency rescue techniques. Certification by the National Safety Council; First Aid Level 3 and CPR/BLS-B. Usually offered every term.

**49.327 Dealing with Sexual Assault (3)** The psycho-social and medico-legal aspects of sexual assault. Topics include: definitions; myths versus facts; preventive measures; motivations and strategies of the assailant; police, medical, and legal procedures; psychological reactions; and counseling techniques for victim and family. Consideration is given to male, female, adult, and child victims. Usually offered every fall.

**49.330 Modern Theories of Health and Wellness (3)** A health philosophy and psychology course which examines the physical, mental, spiritual, and emotional aspects of total well-being, and to what extent personal and social attitudes influence health behavior. Theories include those of Carl Jung, Victor Frankl, M.S. Peck, Elisabeth Kubler-Ross, Roger von Oech, and others. Usually offered every spring.

**49.350 Current Concepts in Nutrition (3)** Provides an understanding of basic nutritional concepts and current available information. Enables students to make informed decisions about their nutritional requirements and diet choices. Includes a three-day computer analysis as well as determination of frame size and body fat percentage. Topics include: fiber vs. fat; vegetarianism; effects of food on mood; current USDA & FDA policy issues; eating disorders; and national hunger issues. Usually offered every term. *Note:* not open to students who have taken 49.240 Nutrition and Modern Food.

**49.340 Camping and Backpacking (3)** Methods, techniques, and skills related to camping, backpacking, and hiking. Includes selection of equipment and camp site, orienteering, cooking, and implications for ecology and conservation. Overnight field experience required during course. Offered irregularly.

**49.390 Independent Reading Course in Health and Fitness (1-6)**

**49.423 Issues in Women's Health (3)** Provides basic understanding of gynecologic anatomy and physiology as well as female health conditions. Emphasis placed on current health research areas such as: female cancers, menopause, infertility, lesbian health, minority health, sexually transmitted diseases, pregnancy, and sexual dysfunctions. Students develop a personal health plan based upon an extensive family history and personal lifestyle.



Usually offered every term. *Note:* Not open to students who have taken 49.323 Women's Health.

**49.425 Exercise Physiology (3)** Provides a physiological perspective of exercise and other forms of physical activity. Emphasizes the influences of aerobic and anaerobic exercise on the cardiovascular, digestive, neuromuscular, hormonal and pulmonary physiological systems. Includes fitness assessment, exercise prescription and training programming. Usually offered alternate springs. *Prerequisite:* 09.200, 15.100, and 15.200.

**49.490 Independent Study Project in Health and Fitness (1-6)**

## Graduate and Advanced Undergraduate Courses

**49.590 Independent Reading Course in Health and Fitness (1-6)**

## Graduate Courses

**49.610 Applied Human Physiology and Testing I (3)** Theoretical basis for exercise physiology explored in detail. Emphasis is on changes occurring in body systems as a result of exercise and training. Usually offered every fall. *Prerequisite:* 09.330, 09.331, 09.332, 09.333, 49.425 or equivalent, and permission of the director of the Health/Fitness Management Program.

**49.615 Applied Human Physiology and Testing II (3)** Introduction to methods of physical fitness assessment and evaluation of results. Includes familiarization with treadmill tests, hydrostatic weighing, EKGs, and selected health status appraisal tools and techniques. Usually offered every spring. *Prerequisite:* 49.610 and permission of the director of the Health/Fitness Management Program.

**49.618 Strategic Planning in Health Promotion (3)** Provides exposure to the concepts and requirements of planning and developing health promotion programs. Students gain a working knowledge of the analytical tools and strategies used in the development of successful health promotion programs in both the profit and nonprofit sectors. Usually offered every fall.

**49.640 Nutrition for Health/Fitness (3)** The role of nutrition in maintaining health and physical fitness is studied in relation to the responsibilities and opportunities of the manager of health fitness programs. Current food myths, diets for those in athletic programs, and special needs of overweight and underweight clients are included. Usually offered every spring. *Prerequisite:* 15.506 or permission of the director of the Health/Fitness Management Program.

**49.690 Independent Study Project in Health and Fitness (1-6)**

**49.790 Selected Topics in Health/Fitness Management (3)** Survey of current literature on the various topics of physical fitness, coronary risk factors, nutrition, smoking, and other topics related to health and fitness. Includes a survey of various organizations that are resources for health information, and field trips to selected health and fitness programs or organizations. Usually offered every fall. *Prerequisite:* degree standing in the Health/Fitness Management Program or permission of instructor.

**49.791 Research Methodology in Health/Fitness (3)** Provides students in the Health/Fitness Management program with a comprehensive understanding of the concepts and methodology that are essential for quality research. Usually offered every spring.

**49.792 In-Service Training in Health/Fitness Management (3)** Internships with the Employee Fitness Program, fitness centers, or a health and fitness organization of the student's choice. May emphasize managerial, clinical, educational, or promotional aspects of health/fitness management. Usually offered every term. *Prerequisite:* degree standing in the master's program in Health/Fitness Management.

**49.797 Master's Thesis Seminar in Health/Fitness Management (3)** May be repeated but not in the same term; content may be the same. Usually offered every term.

## Audio Technology

### Undergraduate Courses

**50.101 Fundamentals of Audio Technology /N (3)** Anatomy of audio components; generation, transmission, and detection of sound; properties of sound; electricity and magnetism with applications to transducers, preamplifiers, amplifiers, tuners, and tape decks; electromagnetic waves, AM, FM, and PM modulation; and elements of AM and FM tuners. Usually offered every spring. *Prerequisite:* permission of instructor. *Note:* not open to students who have taken 50.201 Fundamentals of Audio Technology.

**50.102 Audio Technology Laboratory (1)** Experiments to accompany 50.101 are performed weekly on loudspeaker directivity, amplifier frequency response, amplifier power output, tape recorder frequency response, wow and flutter, and distortion measurements. Usually offered every term. *Prerequisite:* permission of instructor. *Note:* not open to students who have taken 50.202 Audio Technology Laboratory.

**50.210 Sound Synthesis I (4)** Principles and practice of analog and digital sound synthesis. Topics include: basic recording techniques, effects processing, waveform synthesis methods, event timing, and microprocessor fundamentals. Emphasis on the technology and lexicon of creating electronic music. Includes laboratory component for application of multitrack recording techniques, additive, subtractive, and modulated synthesis with an introduction to MIDI. Usually offered every fall. *Prerequisite:* 50.101, 51.105, 51.110 or permission of instructor. *Note:* not open to students who have taken 50.310 Sound Synthesis I.

**50.220 Sound Synthesis II (4)** Continuation of 50.210. Waveform synthesis algorithms, sequencer programming, time code synchronization, multi-track composition, complex event design, programming, and system architecture. Provides a systems-oriented understanding of integrated technologies and techniques involving analog, digital, hybrid, and computer-based synthesizer composition. Includes laboratory component for application of tape effects, signal processing, analog and digital sequencing, synchronization techniques, sampling, MIDI networks, and intermediate-level synthesizer programming. Usually offered every spring. *Prerequisite:* 50.210, 51.205, 51.210 or per-

mission of instructor. *Note:* not open to students who have taken 50.320 Sound Synthesis II.

**50.305 Acoustics (3)** Properties of sound, speech and music, reflection and diffraction. Open-air theaters, sound-absorptive materials and special constructions, and principles of room acoustics and design. Noise control, reduction of air-borne and solid-borne noise, and control of noise in ventilating systems, sound-amplification systems, and auditoriums. Usually offered every fall. *Prerequisite:* 51.205. *Note:* not open to students who have taken 50.230 Acoustics.

**50.312 Electronics I (3)** Fundamentals of basic analog electronic components and circuits. Components examined include: resistors, capacitors, inductors, rectifiers, transformers, triodes, and transistors. Quantities examined include: voltage, resistance, current, inductance, capacitance, reactance, and impedance. Circuit analysis involves application of Ohm's Law and Kirchhoff's rules. Circuits include: DC, AC, tuned, rectifier, and simple amplifying circuits. Usually offered every fall. *Prerequisite:* 50.101; 51.205 (or 51.210).

**50.313 Electronics II (3)** Continuation of analog electronics with an introduction to switching circuits and the fundamentals of digital electronics (TTL and diode logic). Components include semiconductor devices, operational amplifiers, ICs, D/A and A/D converters. Circuits include: multiple transistor amplifiers, transistor switching, oscillators, gates, and flip-flops. Usually offered every spring. *Prerequisite:* 50.312.

**50.322 Electronics Laboratory I (2)** Experiments to accompany 50.312. Experiments include: DC circuits, resistance, capacitance, inductance, AC circuits, rectifiers, vacuum tubes, transistors, and amplifying circuits. Usually offered every fall. *Prerequisite:* 50.312, which may be taken concurrently.

**50.323 Electronics Laboratory II (2)** Experiments to accompany 50.313. Experiments include: transistor characteristics, multiple transistor amplifiers, operational amplifiers, oscillators, gates, flip-flops, D/A and A/D conversion, and circuits using ICs. Usually offered every spring. *Prerequisite:* 50.313, which may be taken concurrently.

**50.330 Advanced MIDI Applications (3)** Provides a sophisticated level of knowledge and hands-on experience incorporating the latest MIDI (Musical Instruments Digital Interface) developments. MIDI is the established international protocol for electronic instruments and computers to communicate with one another. Special topics to be included are: sound editing, creating sound libraries, constructing music systems for performance and/or recording, and synchronization. Usually offered every term. *Prerequisite:* 50.220.

**50.360 Concert Sound (3)** Live concert sound engineering. Outdoor and indoor acoustics are studied in terms of how to interface a sound system with these environments. Students set up a large PA system and learn how to use it with live orchestras and bands. The art of mixing, mixing and sound checking is discussed. Usually offered alternate springs. *Prerequisite:* 50.101 or equivalent.

**50.364 TV Studio Operations (3)** Principles and practice in operation of television studio equipment. Television waveforms and system fundamentals, studio camera chain, video and audio signal distribution, and operation of studio equipment. Laboratory. Offered irregularly. *Prerequisite:* junior standing and permission of instructor.

**50.390 Independent Reading Course in Audio Technology (1-6)**

**50.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**50.410 Sound Studio Techniques and Practice (3)** Multitrack recording techniques as applied to professional sound systems. Studio consoles, magnetic tape recording, signal-processing equipment, room acoustics, noise reduction systems, multitrack recorder alignment, and test equipment. Usually offered every fall. *Prerequisite:* 50.313 or permission of instructor.

**50.420 Advanced Sound-Studio Techniques (3)** Studio set-up, microphone placement, acoustic theory, console patchbay theory and practice, signal processing devices, equalizers, and limiters. Students participate in a recording session in which the set-up and the operation are individually assigned and evaluated. Usually offered every spring. *Prerequisite:* 50.410.

**50.490 Independent Study Project in Audio Technology (1-6)**

**50.491 Internship (1-6)**

### Graduate and Advanced Undergraduate Courses

**50.500 Digital Interfacing (4)** Binary and hexadecimal number systems, Boolean algebra, Karnaugh mapping, digital integrated circuits, elements of digital circuit design. Micro-computer architecture, the MPU instructions set, addressing modes, the stack, index register, and masks and interrupts. Assembler and machine language. I/O operations, peripheral interface adapters, A/D and D/A conversion, and applications. Laboratory with hands-on microprocessor training included. Usually offered every fall. *Prerequisite:* 50.313 or 51.205 or 51.210 or permission of instructor.

**50.501 Microprocessors and Digital Audio (4)** Review of hexadecimal number system, binary mathematics, and programming. Microcomputer architecture, the MPU instruction set, addressing modes, the stack, index register, masks, and interrupts. Assembler and machine language. I/O operations, fundamentals, keyboards, peripheral interface adapters, A/D conversion, with application in digital audiorecording. FFT and IFFT techniques used in digital filtering and formats for storage of digital audio. Examination of bus level transmission of digital audio signals. Laboratory included. Usually offered every spring. *Prerequisite:* 50.500, and 40.260 or 40.280.

## Physics

### Undergraduate Courses

**51.100 Physics for the Modern World /N 5:1 (3)** The laws and rules that govern nature and the physical universe are beautiful yet mysterious. Physics is the science

that tries to find these laws by observation, measurement, and testing of hypotheses. The course traces the development of the scientific method and work that forms the basis for studying mechanics, waves, sound, light, and electricity. Includes laboratory. Usually offered every term. *Prerequisite:* completion of the College Mathematics Requirement or concurrent enrollment in a mathematics or statistics course that has 41.150 Finite Mathematics as a prerequisite.

**51.106 College Physics I / N 5:1 (4)** General physics as defined as the study of the properties and interactions of matter and energy using scientific methodology. Provides a two-semester sequence with 51.205 College Physics II. The first semester covers a full range of topics in classical mechanics and in thermodynamics, including lab experiments in mechanics, heat, and sound. This course satisfies premedical requirements. Usually offered every fall. *Prerequisite:* 41.170 or equivalent. *Note:* not open to students who have taken 51.218 College Physics I.

**51.110 University Physics I / N 5:1 (4)** General physics as defined as the study of the properties and interactions of matter and energy using scientific methodology. Provides a two-semester sequence with 51.210 University Physics II for students who want to use calculus-based mathematical methods in solving physical problems. The first semester covers a full range of topics in classical mechanics and thermodynamics, including lab experiments in mechanics, heat, and sound. Usually offered every fall. *Prerequisite:* 41.221 or concurrent registration. *Note:* not open to students who have taken 51.220 University Physics I.

**51.200 How the Universe Works / N 5:2 (3)** Covers the revolutionary ideas which distinguish twentieth century physics from classical physics, building on the foundation given by prerequisite courses. How these ideas influence other fields of intellectual activity. Special and general relativity, quantum physics, theory of chaos, cosmology, atoms, nuclei, and quarks. Usually offered every term. *Prerequisite:* completion of College Mathematics Requirement and, if taken for General Education credit, 51.105 or 51.100 or 51.110 or 51.110 or 51.100.

**51.205 College Physics II / N 5:2 (4)** Second semester of general physics, following 51.105. Incorporates the standard topics in electricity and magnetism (fields, potentials, DC and AC circuits, electromagnetic waves), geometrical and physical optics, and an introduction to quantum physics. Includes lab experiments in electricity, magnetism, light, and sound. This course satisfies premedical requirements. Usually offered every spring. *Prerequisite:* for all students, and for General Education credit: 51.105. *Note:* not open to students who have taken 51.219 College Physics II.

**51.210 University Physics II / N 5:2 (4)** Second semester of general physics, following 51.110, for students who want to use calculus-based mathematical methods in solving physical problems. Incorporates the standard topics in electricity and magnetism (fields, potentials, DC and AC circuits, electromagnetic waves), geometrical and physical optics, and an introduction to quantum physics. Includes lab experiments in electricity, magnetism, light, and optics. Usually offered every spring. *Prerequisite:* 41.221,

and, for General Education credit, 51.110. *Note:* not open to students who have taken 51.221 University Physics II.

**51.220 Astronomy / N 5:2 (3)** Theories of the formation of the universe, its structure and evolution over time. Stars, planets, and galaxies are born and change over the years; supernovae, neutron stars, pulsars, black holes, quasars, and solar systems are formed. Usually offered every term. *Prerequisite:* for General Education credit: 51.100 or 51.110 or 51.105 or 15.100 or 15.110 or 57.115. *Note:* not open to students who have taken 51.106 Astronomy.

**51.230 Changing Views of the Universe 2:2 (3)** Study of science as a tradition that shaped and was shaped by the Western world. This is not a science course but one about science—how scientific thought, practice, and culture developed. It explores changing concepts in the physical sciences from their earliest roots to modern times, and discusses the interaction between the physical sciences and other aspects of society. Usually offered every fall. *Prerequisite:* for General Education credit: 07.100 European Art: From Cave to Cathedral or 29.100 Historians and the Living Past or 60.105 Western Philosophy.

**51.330 Classical Mechanics (3)** Vector analysis. Newton's laws and dynamics of particles. Harmonic oscillator. Conservative systems. Gravitational forces and potential. Central fields and the motions of planets and satellites. Relativity. Elements of mathematical physics. Usually offered every fall. *Prerequisite:* 41.223, which may be taken concurrently, or permission of instructor. *Note:* not open to students who have taken 51.502 Classical Mechanics.

**51.350 Electricity and Magnetism (3)** Electrostatics, potential theory, magnetic fields, Faraday and Ampere's laws, dielectric magnetic media, and Maxwell's equations. Usually offered every spring. *Prerequisite:* 41.223. *Note:* not open to students who have taken 51.503 Electricity and Magnetism.

**51.360 Environment and the Atmosphere (3)** Description and analysis of the physical phenomena of the earth's atmosphere. Mechanics, fluid dynamics, and thermodynamics of the atmosphere, quantitative analysis of climatic fluctuations and their impact on ecological and economic systems. Climatic changes and climatic control: ozone depletion and greenhouse gases. Usually offered every spring. *Prerequisite:* 41.211 or 41.221.

**51.370 Modern Physics (3)** Electrons, protons, and structure of matter: a historic view. The Rutherford-Bohr atom and elements of quantum mechanics and their applications to atomic, nuclear, and solid state physics. Usually offered every spring. *Prerequisite:* 51.210, 41.222, or permission of instructor. *Note:* not open to students who have taken 51.501 Modern Physics.

**51.390 Independent Reading Course in Physics (1-6)**

**51.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**51.490 Independent Study Project in Physics (1-6)**

**Graduate and Advanced Undergraduate Courses**

**51.530 Mechanics (3)** Newtonian dynamics; Hamilton's principle and Lagrange's equations; central force motion; rigid body dynamics; oscillating motion; Hamilton's equations and phase space; Hamilton-Jacobi equation. Usually offered every fall. *Prerequisite:* 51.330.

**51.540 Experimental Physics (3)** Lectures and Laboratory. Selected experiments to accompany advanced undergraduate and core graduate courses in mechanics, electricity and magnetism, acoustics, optics, and modern physics. Students plan and complete experiments that fit their background and previous training. Usually offered every spring. *Prerequisite:* 51.330, 51.350, and 51.370 or permission of instructor. Note: not open to students who have taken 51.452 Advanced Laboratory.

**51.550 Electromagnetic Waves (3)** Maxwell's equations and electromagnetic waves, reflection and refraction, interaction of light with matter, interference phenomena, and Huygen-Kirchoff diffraction theory. Fresnel and Fraunhofer diffraction, grating, and optical instruments. Offered irregularly. *Prerequisite:* 51.350. Note: not open to students who have taken 51.551 Electromagnetic Waves and Optics.

**51.565 Basic Concepts in Statistical Physics (3)** Statistical description of matter. Distribution functions, phase space, ensembles, statistical interpretation of thermodynamics, effects of quantization, and Maxwell-Boltzmann, Fermi-Dirac, and Bose-Einstein statistics. Usually offered alternate springs. *Prerequisite:* 51.350.

**51.570 Introduction to Quantum Mechanics (3)** Wave mechanics, Schrodinger equation, potential barriers and potential wells, harmonic oscillator, operators, eigenfunctions, eigenvalues, degeneracies, angular momentum, hydrogen atom. Usually offered every fall. *Prerequisite:* 51.370.

**51.571 Special Topics in Applied Quantum Mechanics (3)** Topics include: atomic and molecular, solid state nuclear, and particle physics. Perturbation theory, magnetic moments, multi-electron atoms, transition rates and selection rules, and collision theory. Crystallography, electrical and magnetic properties of solids. Physics of nuclei and nucleons and their interactions, systematics of stable nuclei, radioactivity, and the fundamental interactions. May be repeated for credit in the same term; topic must be different. Usually offered every spring. *Prerequisite:* 51.570.

**51.590 Independent Reading Course in Physics (1-6)**

**Graduate Courses**

**51.600 Quantum Electronics I (3)** Basic theory concerning the interaction of atomic systems with electromagnetic radiation. Includes review of basic quantum principles; matrix theory of quantum mechanics; review of classical radiating dipole, radiation damping and atomic lifetimes; quantization of radiation; modern interpretation of Einstein A and B coefficients. Usually offered alternate falls. *Prerequisite:* 51.570.

**51.601 Quantum Electronics II (3)** Optical resonators and laser cavities; three- and four-level laser models; rate equations pulsed and CW lasers; Real laser systems;

nonlinear optics and second harmonic generation; index matching coherent optics. Usually offered alternate springs. *Prerequisite:* 51.600.

**51.630 Mechanics I (3)** Newton's laws of motion. Variational principles and Lagrange's equations. The two-body central force problem. Scattering in a central force field. Kinematics of rigid body motion. The rigid body equations of motion. Methods of solving rigid body problems. Usually offered alternate falls. *Prerequisite:* 51.530.

**51.631 Mechanics II (3)** Small oscillations. Hamilton equations of motion. Canonical transformations: integral invariants, symmetry principles, and infinitesimal transformations. Liouville's theorem. Hamilton-Jacobi theory and wave mechanics. Lagrange and Hamilton formulations for continuous systems. Usually offered alternate springs. *Prerequisite:* 51.630.

**51.650 Electromagnetic Theory I (3)** Electrostatics: experimental laws, Gauss's and Green's theorems, and Poisson and Laplace equations. Magnetostatics: Law of Biot and Savart, Ampere's Law, and vector potential. Time-varying fields: Faraday's law, Maxwell's equation, and Poynting's theorem. Radiating systems: Lienard-Wiechert potentials, multipole fields, and wave scattering. Usually offered alternate falls. *Prerequisite:* 51.550.

**51.651 Electromagnetic Theory II (3)** Einstein's two postulates; Lorentz transformations; Thomas precession; invariance of electric charge and covariance of electrodynamics; relativistic Hamiltonians and Lagrangians; Darwin and Proca Lagrangians; conservation laws and motion in uniform fields; and scattering and absorption of radiation by a bound system. Usually offered alternate springs. *Prerequisite:* 51.650.

**51.670 Quantum Mechanics I (3)** Experimental background to quantum mechanics. Schrodinger equation, eigenfunctions and eigenvalues, one-dimensional problems, WKB approximations, general principles of wave mechanics, central potentials, hydrogen atom, and scattering. Usually offered every fall. *Prerequisite:* 51.570 or 51.571, which may be taken concurrently.

**51.671 Quantum Mechanics II (3)** General formalism of quantum theory; angular momentum and spin; identical particles and stationary perturbations; time-dependent perturbation theory, and variational method. Usually offered alternate springs. *Prerequisite:* 51.670.

**51.690 Independent Study Project in Physics (1-6)**

**51.691 Internship (1-6)** May be repeated for credit in the same term; topic may be the same.

**51.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**51.780 Research Seminar in Physics (3-6)** Various topics in advanced physics with contents selected according to need. May be repeated for credit either in the same term with a different topic or in a different term with the same topic. Offered irregularly. *Prerequisite:* permission of instructor.

**51.795 Research Training Seminar (1-6)** Usually offered every term.

**51.797 Master's Thesis Seminar (1-6)** Usually offered every term.

**51.799 Doctoral Dissertation Seminar (1-6)** Usually offered every term.

## Government

### Undergraduate Courses

**53.105 Individual Freedom vs. Authority /A 2:1 (3)** The study of major philosophical discussions of the conflict between individual freedom and authority with analysis of the relation between this conflict and the problem of organizing a government. Usually offered every term. *Note:* not open to students who have taken 53.200 Great Issues of Political Thought.

**53.110 Politics in the United States /S 4:1 (3-4)** This course combines a study of major philosophical concepts that shaped government in the United States with an analysis of contemporary political institutions and behavior, focusing on the American governmental system. Four-credit sections include Washington laboratory experiences. Usually offered every term. *Note:* not open to students who have taken 53.120 Introduction to American Politics or 53.100 Introduction to Political Science.

**53.120 Introduction to American Politics /S (3-4)** Pluralism, constitutional bases of government, political participation and elections, and the major national institutions involved in policy making. Usually offered every term. *Note:* not open to students who have taken 53.100 Introduction to Political Science or 53.110 Politics in the United States.

**53.130 Comparative Politics /S 3:1 (3)** How different societies, both Western and non-Western, have approached the political problems of order and responsiveness. The relationships, in a cross-cultural perspective, between the individual and the state; social and economic processes; culture and behavior. Usually offered every term. *Note:* not open to students who have taken 53.230 Comparative Politics: Change, Leadership, Participation.

**53.205 Dissent, Conscience, and Authority /S 4:2 (3)** The dilemma posed by the conflict between conscience and authority that adheres at every level of society (the family, the classroom, the work place, the civic group, as well as governmental agencies and the military) is examined from a social-science perspective. Usually offered every fall. *Prerequisite for General Education credit:* 54.105 or 57.105. *Note:* not open to students who have taken 53.320 Political Behavior.

**53.210 Political Power and American Public Policy /S 4:2** Introduction to political power and how the domestic policy process works; how to evaluate American domestic policy; and the content of several major domestic policies such as energy, environment, health, education, welfare, economic stability, labor, and justice and social order. Usually offered every term. *Prerequisite for General Education credit:* 19.100 or 53.110. *Note:* not open to students who have taken 53.323 Government and Public Policy.

**53.215 Civil Rights and Liberties /S 4:2 (3)** The legal, political, and philosophical status of rights and liberties protected under the Constitution and laws of the United

States; how political processes affect the definition of rights. Usually offered every term. *Prerequisite for General Education credit:* 53.110 or 73.100 or 54.105. *Note:* not open to students who have taken 53.351 Civil Rights and Liberties.

**53.231 Third World Politics /S (3)** Political order and change in selected countries in Africa, Latin America, and Asia, emphasizing nation building, ideology, development, and the role of the military. Usually offered every fall and spring.

**53.232 Politics of Industrial Societies (3)** Comparative study of participation, public policy, and policy making in industrial societies. The effects of technology and science on values and social change. Usually offered every term. *Note:* not open to students who have taken 53.330 Politics of Industrial Societies.

**53.235 Dynamics of Political Change /S 3:2 (3)** Theoretical perspectives on political change together with case studies of societies in which the status quo has broken down. Emphasis on the political, cultural, social, and psychological aspects of domestic crisis and revolution, with the objective of increasing awareness and appreciation of other nations and their struggles. Usually offered every term. *Prerequisite for General Education credit:* 53.130 or 29.120 or 33.110. *Note:* not open to students who have taken 53.431 Revolution and Violence.

**53.240 Metropolitan Politics /S (3)** The growth of cities and metropolitan areas. Evolution of the city and its surrounding areas as a focus of public policy. Analysis of decision-making techniques, intergovernmental relations, and ethnic politics. Implications of financial resources and suburban attitudes on metropolitan politics and policy making. Usually offered every term.

**53.245 Introduction to the Study of Law (3)** Course acquaints students with the characteristics and the history of the Anglo-American judicial system. Attention is given to theories of law; the substantive categories of law; and the interaction of law, morality, and politics. Usually offered every summer.

**53.303 Ancient Political Thought (3)** An in-depth approach to political philosophy beginning with the pre-Socratics and extending through the Platonic dialogues, Aristotle, and Roman civil law. Meets with 53.603. Usually offered every fall. *Note:* not open to students who have taken 53.301 Classical Political Thought.

**53.305 Modern Political Thought (3)** Works of major political theorists from the sixteenth to the twentieth century and their application to current questions of theory and method. Included are Machiavelli, Hobbes, Locke, Montesquieu, Rousseau, Mills, Hegel, Marx, and others. Meets with 53.605. Usually offered every spring. *Note:* not open to students who have taken 53.200 Modern Political Thought.

**53.306 American Political Thought (3)** Concepts and theories on the nature and operation of American politics and government. Meets with 53.606. Offered irregularly. *Note:* not open to students who have taken 53.302 American Political Thought.

**53.310 Introduction to Political Research (3)** An introduction to political science research, including the logic of analysis, research design, and the basics of quantitative analysis. Application of gathering data and of analytic and statistical techniques to contemporary political problems. Usually offered every term. *Prerequisite:* one course in political science.

**53.315 Elections and Voting Behavior (3)** The role of public opinion, interest groups, social movements, and political parties in plural societies. Problems in political participation, communication, representation, and leadership. Usually offered every term.

**53.320 The Presidency (3)** The role of the presidency in the political system, including presidential power, personality, response to public opinion, interaction with the cabinet and bureaucracy, Congress, and political parties. Usually offered every term. *Note:* not open to students who have taken 53.225 Congress and the Presidency or 53.220 Presidential Politics.

**53.321 Congress and Legislative Behavior (3)** Congressional behavior, Congress as an institution, and the role of Congress in policy making. Includes field research on Capitol Hill. Usually offered every term. *Prerequisite:* 53.110 or 53.120.

**53.322 American Political Parties (3)** Party organization, the party in the electorate and government, party reform, and the future of American parties. Research on parties in Washington. Usually offered every spring. *Prerequisite:* 53.110 or 53.120 or 53.315.

**53.331 The Military, Authoritarianism, and Party Politics (3)** Politics, theory, and practice of modern totalitarian and authoritarian systems. Communism, fascism, nazism, corporatism, and praetorianism. Usually offered every fall. *Prerequisite:* a course in comparative politics or a relevant history course. *Note:* not open to students who have taken 53.430 Authoritarian Regimes: Generals, Presidents and Kings.

**53.335 Democratization, Participation, and Social Movements (3)** The background and major issues of twentieth century political thought; the concept, nature, and functions of ideology; and major contemporary doctrines. Usually offered every fall. *Prerequisite:* a course in history of ideas, philosophy, or theory recommended. *Note:* not open to students who have taken 53.401 Communism, Fascism, and Democracy.

**53.350 Constitutional Law I: Powers and Federalism (3)** The nature of constitutionalism and the role of constitutional interpretation; judicial power and review. Supreme Court decisions and their effect on the development of the American political system. Usually offered every term. *Prerequisite:* 53.110 or 53.120 or 53.302/53.306 or 53.352. *Note:* not open to students who have taken 53.350 American Constitutional Development.

**53.352 Law and the Political System /S (3)** Basic concepts of law and the American legal system. Analysis of the role of courts in the policy-making process. Problems of law enforcement and the correctional system. Usually offered every term.

**53.360 Political and Organizational Leadership (3)** Examines major theories and research in public leadership, with emphasis on American political and administrative institutions. Case-studies of leaders and leadership in complex public organizations. Relative impact of personality and organizational factors in leadership development. Emphasis on students' awareness of their own leadership style and development potential. Usually offered every spring. *Prerequisites:* junior standing and concurrent registration in 53.361. *Note:* not open for credit to students who have taken 54.445 Leadership in the Public Sector.

**53.361 Laboratory in Leadership Development (3)** Structured and unstructured exercises designed to increase the student's leadership skills, including awareness and capability in communication; group dynamics; value clarification; the development of vision; managing emotions in leadership situations; bargaining and negotiation; and the relationship of personal growth to leadership roles and functions. Usually offered every spring. *Prerequisite:* junior standing and concurrent registration in 53.360.

**53.370 Formation and Implementation of Environmental Policy (3)** An introduction to the issues, institutions, and processes that determine environmental policy in the United States. Environmental policy formation, implementation by administrative agencies, and the resolution of environmental disputes. Usually offered every fall.

**53.390 Independent Reading Course in Government (1-6)**

**53.391 Internship (1-6)** Specially arranged with the director of undergraduate academic counseling in interest groups, congressional offices, and government agencies. Weekly seminar. Usually offered every term. May be repeated for credit within the same term; topic must be different. *Prerequisite:* second-semester sophomore standing and 53.210, 53.321, or 54.200.

**53.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**53.410 Washington Semester in American Government and Politics Seminar I (4)** Selected students from the university and cooperating institutions study the U.S. government in action through seminars, conferences, lectures, and guided seminar evaluations of experience. The research project is an individual report prepared under the guidance of the academic directors of the program. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 53.411 and 53.412.

**53.411 Washington Semester in American Government and Politics Seminar II (4)** See 53.410. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 53.410 and 53.412.

**53.412 Washington Semester in American Government and Politics Research Project (4)** See 53.410. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 53.410 and 53.411.

**53.413 Washington Semester Research Project (4)** Independent research project prepared under the guidance of the Washington Semester faculty. May be repeated for credit but not within the same term; content must be

different. Usually offered every fall and spring. *Prerequisite:* open to Washington Semester students only.

**53.416 Washington Semester in American Government and Politics Internship (4)** Open only to students in the Washington Semester program, as arranged with their academic directors. Usually offered every fall and spring.

**53.423 Advanced Studies in Public Policy (3)** Seminars on such topics as hunger, poverty, housing, education, job training, health care, unemployment, welfare, and conservation. May be repeated for credit within the same term; topic must be different. Usually offered every fall and spring. *Prerequisite:* 53.110, 53.120, or 53.210.

**53.425 Government Regulation and Deregulation (3)** The impact of federal regulation and deregulation on American life; the complex interactions between the public and private sectors; corporate and consumer lobbying; the effects of trade laws; and antitrust policy. Usually offered every term. *Note:* not open to students who have taken 53.565 Limits of Government Regulation in Our Daily Lives.

**53.432 Political Institutions and Processes in Selected Countries (3)** The nature of political institutions and processes of specific countries, such as Great Britain, Germany, France, the former Soviet Union, Israel, Iran, Greece, India, Turkey, and Mexico. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite:* 53.130 or 53.231 or 53.232 or 53.330 or permission of instructor.

**53.434 London Semester: British Politics and the European Union 3:2 (3)** Two part seminar with the London Semester Program academic director and guest speakers drawn from many walks of British political life. Focuses on political parties, Parliament, pressure groups, Cabinet and Whitehall, law and justice—all in the context of Britain's membership in the European Community. Required of all London Semester students. Usually offered every term. *Prerequisite for General Education credit:* 33.105 or 53.130.

**53.435 London Semester Internship (4)** Students work up to twenty hours a week in British institutions under faculty supervision. Usually offered every term.

**53.438 Italian Political Thought since World War II (3)** A study of major Italian political institutions, political movements, and leaders. The course consists of classroom lectures and on-site seminars led by current Italian political leaders. Taught in Rome. Usually offered every term.

**53.442 Field Study in State Government (3)** A study of policy-making in states, focusing on the governors and legislatures. Trips to nearby state capitals. Offered irregularly. *Prerequisite:* 53.110 or 53.120 or 53.240.

**53.461 Politics in the Television Age (3)** The relationship between television and American politics. Topics include the concept of news; the changing role of television; the politics of newsmaking; the election campaign and the emergence of the political consultant; "tele-diplomacy"; and research tools for analyzing television news. Usually offered every term. *Prerequisite:* an introductory course in American politics.

**53.462 Politics of Popular Culture (3)** A critical examination of the ways in which language is used to constitute values and the meaning by which power becomes effective in areas such as popular music, television, film, graffiti, comic books, etc. Usually offered every term. *Prerequisite:* an introductory course in American politics.

**53.463 Politics and the Cinema (3)** Through analysis of the images and symbols inherent in contemporary motion pictures, students are able to consider not only the developed political ideologies, but also the psychological dimensions of political action and inaction. Usually offered every spring. *Prerequisite:* an introductory course in American politics.

**53.464 Political Rhetoric (3)** Explores the nature of political rhetoric and its history, possibilities, and limitations as well as why and how it is used in the political process and with what effect. Students learn about the skills and resources necessary to produce effective political rhetoric and the mechanics of political argumentation. Usually offered every term. *Prerequisite:* an introductory course in American politics.

**53.480 Honors Senior Seminar in Political Science I (3)** A capstone experience for honors students in Political Science and CLEG. Designed to facilitate the integration of knowledge in the field of political science. Development and oral defense of significant research projects. Usually offered every fall. *Prerequisite:* permission of instructor. *Note:* not open to students who have taken 53.499 Honors Research in Political Science.

**53.481 Honors Senior Seminar in Political Science II (3)** For description, see 53.480 above. Usually offered every spring. *Prerequisite:* permission of instructor. *Note:* not open to students who have taken 53.499 Honors Research in Political Science.

**53.489 CLEG Seminar (3)** Selected topical issues cutting across the disciplines of communication, law, economics, and political science. Primarily for students majoring in the interdisciplinary major in CLEG (Communication, Legal Institutions, Economics, and Government). Examples of issues are communication law and regulation, First Amendment rights and the media, and United States trade policy. May be repeated for credit, but not within the same term; topic must be different. Usually offered every spring.

**53.490 Independent Study Project in Government (1-6)**

**53.492 Seminar for Teaching Assistants (3-4)** Exclusively for those who serve as teaching assistants in the Washington Laboratory, this course focuses on curriculum planning, group dynamics in classroom and field-trip settings, role differentiation, and evaluation of student performance. Enhances leadership and communication skills. Usually offered every fall. *Prerequisite:* permission of instructor.

## Graduate and Advanced Undergraduate Courses

**53.500 Marxian Social and Political Thought (3)** Marx's contribution to social and political science, economics, and revolutionary theory. Primary texts. Usually offered every fall.

**53.502 Politics of the Middle East (3)** Politics of the modern Middle East. Deals with legitimacy in crisis in Arab politics, the rise of Jewish nationalism and the politics of Israel, the Arab-Israeli conflict, and international rivalry over the Middle East. Usually offered every fall.

**53.520 Advanced Studies in Campaign Management (1-4)** Institute and advanced workshops conducted by campaign professionals. The Campaign Management Institute is a two-week intensive course (four credit hours) offered in January and May on major aspects of political campaigning. Student teams present a simulated campaign plan to a professional panel. Advanced workshops (one credit hour) are offered both fall and spring in areas such as campaign media production and strategy, campaign fundraising, get-out-the-vote, and election analysis. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 53.120 or 53.110.

**53.521 Advanced Studies in Elections (3)** Seminars on such issues as campaign management, campaign finance, and elections and voting behavior. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite:* major in the department of government or public administration or graduate standing.

**53.522 Studies in Political Behavior (3)** Examples are personality and politics, and political socialization. Offered irregularly. *Prerequisite:* six credit hours of relevant coursework in political science or a related discipline.

**53.523 The Art and Craft of Lobbying (1-4)** Institute and advanced workshops conducted by lobbying professionals. The Lobbying Institute is a two-week intensive course (four credit hours) offered in January and May in major aspects of professional lobbying and political influence. Student teams, directed by mentors drawn from the lobbying profession, present a simulated lobbying plan to a professional panel. Advanced workshops (one credit hour) are offered regularly in specific lobbying areas such as grass roots lobbying, direct mail, interest group litigation, executive branch lobbying, and congressional testimony. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 53.110 or 53.120.

**53.524 Congressional Studies (3)** Examples are Congress in transition, information sources on the Hill, congressional-executive relations, legislative research skills, and legislative rules and procedures. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**53.525 Congress and the Executive (3)** Relations between the Congress and the executive branch (president and bureaucracy) with respect to congressional oversight, legislative support of presidential programs, institutional liaison arrangements between Congress and the executive, and reforms in Congress bearing on the changing relationship between the two branches. Usually offered every spring.

**53.526 U.S. Intelligence Community (3)** This course examines the agencies which make up the intelligence community and activities in which those agencies engage: collection of intelligence, counterintelligence, covert ac-

tion, and analysis. The sources of conflict between members, direction and management of the community, secrecy and public control, and proposals for reform are also covered. Guest participants from research institutes and government; independent authors. Usually offered every spring.

**53.532 Political Institutions and Processes in Selected Regions (3)** Comparison of political institutions and processes of countries within specific regions such as Central America, Latin America, Western Europe, Eastern Europe, the Middle East, North Africa, Africa, South Asia, or Southeast Asia. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* 53.130 or 53.231 or 53.232 or 53.330 or permission of instructor.

**53.540 Political Parties, Interest Groups, and Lobbying (3)** The roles, functions, and changing nature of political parties and interest groups in American politics, the impact of political party reforms on the parties, and the ways in which parties and interest groups shape public policy. Usually offered every spring.

**53.541 The Politics of Mass Communication (3)** Effects of mass communication on all levels of political life in modern societies; including socialization, participation, information, and opinion. Analysis of the relationship between mass communication and politics within a comparative context, i.e., societies with differing media structures (predominantly commercial, public, or state systems). Usually offered every spring.

**53.550 The Cuban Revolution (3)** An examination of the social, economic, and political roots of the Cuban revolution of 1959 and the changes brought about in Cuban politics and society as a result of the revolution. Usually offered every fall.

**53.560 Intergovernmental Relations (3)** The political, fiscal, and administrative relationships which help to shape the complex intergovernmental system. Federal, state, local, and other jurisdictions are examined concerning their effect on intergovernmental systems. Usually offered every fall and spring. *Prerequisite:* 53.120 or 53.110 for undergraduates.

**53.590 Independent Reading Course in Government and Political Science (1-6)**

### Graduate Courses

**53.603 Ancient Political Thought (3)** A consideration of the principles that differentiate pre-modern political thought from modern political thought. Readings include Aristophanes, Plato, and Aristotle. In alternate years, such authors as Thucydides, Xenophon, Cicero, Plutarch and others are considered selectively. Meets with 53.303. Usually offered every fall.

**53.605 Modern Political Thought (3)** Political science as systematic inquiry. Works of political theorists from Machiavelli to the twentieth century; applications to current questions of theory and method. Meets with 53.305. Usually offered every spring. *Note:* not open to students who have taken 53.600 Modern Political Theory.

**53.606 American Political Thought (3)** Concepts and theories on the nature and operation of American politics



and government. Meets with 53.306. Offered irregularly.  
*Note:* not open to students who have taken 53.602 American Political Thought.

**53.610 Introduction to Quantitative Methods in Political Science (3)** Application of techniques of bivariate analysis to measurement of political behavior; emphasis on techniques relevant for political scientists and students of public administration. Usually offered every fall.

**53.611 Political Research (3)** Analysis and investigation of political and social problems. Emphasis on theory construction as a guide to research formulation, methods of research, and empirical testing of research questions. Usually offered every spring. *Prerequisite:* 53.650.

**53.612 Conduct of Inquiry I (3)** Concepts, approaches, and methodologies of research in political science and public administration; probability, sampling; quantitative data analysis, including hypothesis testing and estimation; qualitative data analysis and measures of association. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program or permission of the director of doctoral programs.

**53.613 Conduct of Inquiry II (3)** Continuation of 53.612. The use of bivariate and multivariate analysis in political and administrative research; analysis of organizational decision models. Usually offered every spring. *Prerequisite:* admission to Ph.D. program or permission of the director of doctoral programs.

**53.614 Research in Political and Administrative Behavior (3)** The use of survey research and case studies for the study of political and administrative behavior. Instruction in the use of the computer as an aid in political and administrative research. Usually offered every spring. *Prerequisite:* admission to Ph.D. program or permission.

**53.630 Comparative Politics of Developed Nations (3)** An introduction to the study of comparative politics, including methods of analysis and conceptual frameworks relevant to an understanding of the structures and processes of political systems in developed nations. Usually offered every fall.

**53.631 Comparative Politics of Developing Nations (3)** An introduction to the comparative study of governments and political change in the Third World. Topics include development and underdevelopment, cultural pluralism, political integration, nationalism and other ideologies, and the role of the military. Case studies are included. Usually offered every spring.

**53.637 Comparative Politics: Regions in Comparative Perspective (3)** Special topics dealing with the former Soviet Union, Western Europe, the Middle East, Africa, communist China, Japan, and others. May be repeated for credit within the same term; content/topic must be different. Offered irregularly.

**53.650 Political Analysis (3)** Methods of scientific analysis, including research formulation, hypothesis generation and testing, quantitative analysis, and computer techniques. Usually offered every fall.

**53.651 The Legislative Process (3)** The function of the legislative branch in the American governmental system.

Emphasis on Congress and comparison with state legislatures. Usually offered every spring.

**53.652 The Presidency and the Executive Branch (3)** Analysis of presidential roles and of the function of the federal executive branch. Presidential personality, executive-legislative relations, and policy formation. Usually offered every fall.

**53.654 Political Behavior (3)** An examination of the determinants of voting behavior, such as personality, beliefs and attitudes (including issue opinions and conceptual sophistication), political socialization, small groups and communication. Some attention to institutional and normative considerations. Uses survey research and case studies. Usually offered every fall.

**53.656 Voting Behavior, Elections, and Campaigns (3)** Political participation and behavior in U.S. primaries and elections, management of campaigns, mass media, and political organizations. Offered irregularly.

**53.674 Constitutional Law and Politics (3)** Involvement of American courts in such issues as legitimacy, conflict resolution, and representation; courts as political actors with respect to federalism; powers and limitations of government; advancement of individual and group interests and rights. Offered irregularly.

**53.680 Independent Study Project in Government and Political Science (1-6)**

**53.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**53.704 Approaches to Political Understanding (3)** Survey and analysis of alternative theories of knowledge in the social sciences. Epistemological norms of modern empiricism. The critique of empiricism. Linguistic analysis, phenomenology, ethnomethodology, hermeneutics, critical theory, structuralism, and post-structuralism. Application to the study of political science and public administration. Usually offered every spring. *Prerequisite:* admission to the Ph.D. program or permission of instructor.

**53.710 Seminar in American Politics (3)** Analysis of the operation of the presidency and the legislative branch and the impact of interest groups and parties on public policy. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* admission to Ph.D. program or permission of instructor.

**53.720 Seminar in Policy Analysis (3)** Analysis of policy formation and implementation; different theories on the role of government in society; the science of program evaluation. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* admission to the Ph.D. program or permission of instructor.

**53.730 Seminar in Comparative Politics (3)** Analysis and critique of major theoretical approaches to the study of comparative politics in developed and developing worlds. Historical and theoretical foundations of the nation-state;

political issues that arise from social change; and approaches to determining the relative autonomy of state institutions. Usually offered every fall. *Prerequisite:* open to Ph.D. students only.

**53.799 Doctoral Dissertation Seminar in Political Science (1-12)** May be repeated for credit; topic must be different. Usually offered every fall and spring.

## Public Administration

### Undergraduate Courses

**54.105 Individuals and Organizations /S 4:1 (3)** The impact of organizations on persons who work within them or deal with them. Includes theories and structured in-class experiences focusing on human motivation, group dynamics, communication, roles, norms, and decision making. Secondary emphasis on organization structure, relationships of organizations to their environments, and the subunits within organizations. Usually offered every term.

**54.260 Administrative Politics /S (3)** An introduction to American public administration and the executive branch of government. Emphasis on the politics of administration and on the relationship of the bureaucracy with clientele groups, Congress, the White House, and the public. Usually offered every term.

**54.343 Governmental Management (3)** An introduction to the theory and practice of managing governmental agencies at the national level. Concentrates on administrative structures and processes. Examines the development of the federal bureaucracy and the potential for change in future directions on administration, hiring, and programs. Usually offered every fall. *Prerequisite:* 53.120 or 53.110.

**54.344 Managing State and Local Governments (3)** A survey of the theory and practice of managing state and local governments. Includes a review of the background against which structure and administrative changes have been introduced into managing local self-governing jurisdictions. Usually offered every spring. *Prerequisite:* 53.120 or 53.110.

**54.345 The Law of Public Administration (3)** This is a survey course intended to familiarize the student with the legal concepts and practices that have defined and continue to shape governmental administration. It begins with a perspective on the rule of law in American society and the impact of law on the individual. Usually offered every spring. *Prerequisite:* 53.120 or 53.110.

### Graduate and Advanced Undergraduate Courses

**54.590 Independent Reading Course in Public Administration (1-6)**

### Graduate Courses

**54.601 Methods of Problem Solving I (3)** The use of analytical techniques to solve problems in policy analysis and public administration. Defining problems, choosing appropriate techniques, and understanding the limits of quantitative approaches. Usually offered every term.

**54.602 Methods of Problem Solving II (3)** Continuation of 54.601. Students improve their ability to analyze and solve public problems using analytical techniques. Usually offered every term. *Prerequisite:* 54.601.

**54.603 Management Science for Public Managers (3)** Introduction to quantitative techniques useful to decision-makers in analyzing and solving business and government problems. These techniques include linear programming, forecasting, decision theory, inventory control, queuing theory, and simulation processes. Emphasis on applying theory in solving practical problems. The use of the computer to assist in solving problems is emphasized. Offered irregularly.

**54.604 Public Program Evaluation (3)** Introduction to the elements of policy and program analysis for public program managers. Normative criteria for program evaluation; systematic strategies for assessing and measuring the effects of program elements and policy changes; and logic and limitations. Usually offered every spring and alternate summers.

**54.605 Research Methods for Public Managers (3)** Practical applications of scientific research principles and techniques. Analytical and logical methods are followed in characterizing research, selecting and developing a governmental research problem, designing the research strategy, researching documentary sources, and developing the outline. The objective is to develop an infrastructure for the research project and to choose from the methodologies of research most suited for individual students' needs. Offered irregularly. *Prerequisite:* open only to students in selected contract programs.

**54.606 Foundations of Policy Analysis (3)** Distributional effects, externalities, and the role of risk and uncertainty in policy analysis. Criteria for choice, normative roles for analysis, and using information and social welfare criteria in making policy decisions. Usually offered every fall. Note: not open to students who have taken 53.682 Foundations of Policy Analysis.

**54.607 Economics and Politics of Public Policy (3)** Applies basic normative and positive theories of public policy learned in 54.606 Foundations of Policy Analysis to specific policy areas, including social welfare and regulatory policies. Topics include: environmental policy, education, welfare, health care, EEO and discrimination, transportation, cable TV, and drug policy, depending on student interests. Usually offered every spring. *Prerequisite:* 53.682 or 54.606.

**54.608 Comparative Administrative Systems (3)** An examination of governmental administrative systems in Europe, North and South America, Asia, and Africa. The focus is on these institutions as subsystems of national and international economic and political systems. The emphasis is on the comparative analysis of administration in capitalist industrialized nations, socialist nations, and the Third World. Usually offered every spring.

**54.609 Studies in Policy Analysis: Governmental Structures (3)** Theories and techniques of policy analysis as applied to issues of governmental administrative structure and process, including issues such as size, centralization and decentralization, professionalization and its

effects, and reorganization. Usually offered every fall. *Prerequisite:* 54.601 or 54.606.

**54.610 Public Management (3)** Problems of management in public agencies; the activities of public managers; the different kinds of government agencies, their settings and tasks; the administrative methods used by public managers; and the applicability of these methods under various conditions. Usually offered every term.

**54.611 Organization Planning and Control (3)** An introduction to planning theory. Efforts at governmental planning in the United States, techniques used to develop and implement organization planning and control systems, and individual and group resistance to planning and the implications of this for public administration. Usually offered every year. *Prerequisite:* 54.610 or equivalent.

**54.612 Politics of Administration (3)** The external activities of public agencies; their relations with other agencies, legislative bodies, interest groups, citizens, advisory committees, and other levels of government. Administrative ethics and the mechanisms for holding public administrators accountable, e.g., legislative oversight, sunshine and sunset laws, reorganization, and the press. Usually offered every year.

**54.613 Administration of International Programs (3)** Organizational and administrative problems of program management in an interdependent world. The administration of government programs in developing countries and the management of international organizations. The effects of development programs and the consequences of alternative management strategies. Usually offered every fall.

**54.614 Development Management (3)** The problems of administering public programs in developing countries and the methods by which development projects are carried out. For foreign students who will be returning to developing countries as well as for Americans interested in international administration. Usually offered every spring.

**54.616 Legal Issues in Public Administration (3)** An introduction to legal issues facing public managers. After an introduction to the legal basis of public administration, including the empowerment process, administrative procedures, and judicial review, students focus on legal issues in client relations, administrative ethics, personnel management, and general administration. Usually offered every term.

**54.617 Microcomputing Workshop for Public Managers (3)** The course provides students with in-depth microcomputer skills that can be readily applied to the modern workplace. The course also explores end-user computing issues from a federal-government perspective. Offered irregularly. *Prerequisite:* 54.618.

**54.618 Management Workshop (3)** Professional training in management skills such as briefing skills, group and personal interaction, and computer applications. Along with other designated workshops, laboratories, and institutes, the course satisfies the management-skills requirement in the M.P.A. program. May be repeated for credit in the same term; topic must be different. Usually offered every term.

**54.619 Personnel Administration and Ethics in Government (3)** Managerial discretion, particularly at the federal level, with regard to the personnel management areas of position management, staffing, labor-management relations, performance appraisal, training, recognition, and discipline; and ethics and values, including consideration of conflict of interest, ends and means, deception and various degrees of untruth. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

**54.621 Executive Management (3)** Based on the profession of public administration and relevant contributions from the business world, this course provides instruction in the principles of managing programs, projects, and other large-scale organizational activities. Classical and modern approaches to executive management are analyzed in areas including planning, organizing, staffing, program implementation, evaluation, and control. The different characteristics of government organizations are emphasized, along with the constraints that these create for public executives and the ways they can respond. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

**54.622 Leadership for Key Executives (3)** Focusing on the leadership skills of each member of the class, this course is designed to sharpen the capabilities of key executives to lead and manage other personnel. Key executives examine their own managerial style, methods of communication, techniques of motivation, delegation of work, and approaches to group leadership. Class exercises are used to illustrate research findings from the behavioral sciences. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

**54.623 Executive Problem Solving (3)** In this course key executives study the methods for gathering and analyzing information in ways that lead toward more effective and accurate decisions. Specific techniques for analyzing public policies and evaluating agency performance are examined. During this course each key executive develops a prospectus for analyzing a program or activity within his or her own agency. Usually offered every summer. *Prerequisite:* open only to participants in the Key Executive Program.

**54.624 Budgeting and Financial Management (3)** The use of the executive budget as a device for management planning and control is the focus of this course on public financial management. Key executives develop their skills in understanding different budgetary systems, the elements of budget review and execution, and various strategies and tactics employed by participants in the budgetary process. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

**54.625 Analysis and Evaluation Practicum (3)** Key executives apply the principles taught in the program to administrative policy issues within their own agencies. Under the guidance of individual faculty advisers, participants conduct their own research, develop a written analysis of their findings, and participate in an oral defense of the methodology, conclusions, and implications of their projects. May be repeated for credit, but not within the

same term. Usually offered every term. *Prerequisite:* open only to participants in the Key Executive Program.

**54.626 Legal Issues in Public Administration (3)** This course deals with the legal basis of government authority and the ways in which legal processes authorize yet limit executive action. Using statute and case law, key executives study the delegation of legislative power, rule-making, administrative appeals, and judicial review. Attention is focused on the legal issues in which key executives are most likely to become involved. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

**54.627 Politics, Policy-Making, and Public Administration (3)** Key executives examine the relationship of the legislative process, congressional oversight, and EOP/OMB review and approval to the administration of government policy. They study response to pressure groups, clientele groups, and the general public. Executives also address their relationship to political executives, the political basis of government organization, and the difficulties of interagency coordination. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

**54.628 Executive Skill Modules (1-2)** Participation in this program sequence is designed to improve the practical skills that top-level executives use on their jobs. Among the modules available to participants are computer literacy for executives, executive speaking, effective writing, and executive health and fitness. May be repeated for credit within the same term; topic must be different. Usually offered every fall and summer. *Prerequisite:* open only to participants in the Key Executive Program.

**54.629 Symposium on Executive Management (2)** This course focuses on the integration of the public executive role with the work of the organization from the macro, or institutional, perspective. As the capstone course, it focuses on the perspectives of executive management effectiveness that emerge from the four Key Executive Program study tracks. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

**54.630 Public Managerial Economics (3)** Microeconomic theory as a framework for understanding the problems of public managers. Resource scarcity, consumer behavior, production, cost, economics of efficient management, operation of product markets under competition and monopoly, labor markets, market failure, and public goods. Offered irregularly.

**54.631 Financing Government Services (3)** The theory and practice of public finance and revenue administration with emphasis on state and local government. Applied tax administration and managing other revenue sources: cash management and investing government funds, risk management, debt management including general obligation revenue bonds, user charges and intergovernmental grants. Usually offered every term. *Prerequisite:* 54.630 or equivalent.

**54.632 Governmental Budgeting (3)** Why budgeting exists, how it works, and who the main actors are. Decision-making theories; resource allocation strategies; program evaluation methods; quantitative aids; legislative

and intergovernmental relations; organization and personnel needs; and economic ramifications of alternative fiscal and spending priorities. Usually offered every term.

**54.633 Public Financial Management (3)** An introduction to the fundamentals of financial management in government agencies, including the background necessary to understand basic concepts of government accounting, auditing, the budget cycle, budget execution, fund management, and financial statements. Usually offered every term.

**54.634 Accounting and Budgeting for Public Managers (3)** Premises, principles, and procedures for financial accounting for industry and federal and local government. Accounting for decision making in students' organizations. Emphasis on viewpoints of users, especially operating and budget officials. Discussion of budgeting and auditing functions is integrated into accounting lectures and illustrations. Current financial-management priorities of government are also discussed. Offered irregularly.

**54.635 Public Finance (3)** This course develops a theoretical basis and a working knowledge of techniques needed to examine and evaluate public-sector activity. Topics include the role and size of the public sector, budget determination and forecasting, public expenditure evaluation and revenue structure, and intergovernmental relations. The course may include topics in development finance and debt management. Offered irregularly.

**54.636 Public Financial Analysis (3)** How to analyze the financial health of state and local governments and other public organizations and develop remedies for financial problems. Financial condition is related to expenditure, revenue, and borrowing decisions; the economic base and needs of the community; capital markets; public employees; and the overall economic system. Usually offered every fall. *Prerequisite:* two courses in public financial management.

**54.637 Public Managerial Macroeconomics (3)** An introduction to macroeconomic theory and applications as a basis for understanding the financial environment of public management. Basic models for short- and long-run forecasting of revenue and expenditures. The business cycle and political theories for explaining fiscal patterns at the federal, state, and local levels. Credit markets, interest rates, and debt management. Offered irregularly. *Prerequisite:* 54.630 or equivalent.

**54.640 Leadership (3)** This course deals with significant theories of leadership and human motivation that have shaped current applications in human resources. Emphasis is on those aspects of humanistic psychology most applicable to individual and group behavior in management. Usually offered every term. *Prerequisite:* open only to participants in the M.S. in Organization Development or Personnel and Human Resources Management programs.

**54.641 Methods of Problem Solving (3)** An introduction to quantitative methods of analysis and problem solving. Students learn about different applications to training and organization development such as assessing training needs, evaluation designs, and survey techniques. Usually offered every term. *Prerequisite:* open only to participants

in the M.S. in Organization Development or Personnel and Human Resources Management programs.

**54.642 Organization Dynamics (3)** This course focuses on the structure and dynamics of organizations as complex systems. It also emphasizes the interaction of technology and environment with organizational action. Topics include organizations as dynamic open systems, organizational design and structure, contingency theories of organization, conflict and coordination in organizations, and the relationship of the individual and the organization. Usually offered every term. *Prerequisite:* open only to participants in the M.S. in Organization Development or Personnel and Human Resources Management programs.

**54.643 Financial Management (3)** Financial analysis as a management tool. Emphasis is on budgeting techniques, pricing, fund accounting, and financial statements. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

**54.646 Consultation Skills (3)** This course provides students with the opportunity to practice consultation with local clients. Students develop their skills in client contact, contracting, diagnosis, intervention, feedback and follow-up, team building, and the delivery of services to a client, and become clearer about their own consultation style and level of expertise. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

**54.647 Career Development (3)** The course begins by building a community support system for learning. In the second phase, students work on their personal career development and life planning. In phase three, students are introduced to career development programs in organizations and how they relate to the productivity of individuals. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

**54.648 Training Design and Facilitation (3)** This course develops training skills and understanding of the basic theories of laboratory education and group dynamics. Each student diagnoses his or her training style and its effectiveness; learns about needs assessment techniques; develops design skills; and tests his or her diagnostic skills. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development or Personnel and Human Resources Management programs.

**54.649 Studies in Human Resource Management (1-3)** Rotating topics, including international human resource development; conflict resolution for human resource development; and building effective work teams for human resource development. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

**54.650 Leadership for Public Management (3)** Students develop the theoretical knowledge, self-awareness, and skills to strengthen their leadership style and capacity. Topics include: theories and models of leadership, motivation, group behavior, power, communication, conflict, and organizational change. Students gain awareness of their interpersonal skills and effectiveness through structured

experiences, instruments, and other classroom activities. Usually offered every fall and spring.

**54.652 Building Effective Work Teams (3)** Strategies and techniques from the behavioral sciences that are used to improve the effectiveness of individuals, teams, and organizations. Data collection and feedback, group process observation, team building, conflict management, and structural interventions are reviewed and practiced along with current applications, trends, and professional issues. Usually offered every fall.

**54.653 The Individual and the Organization (3)** This course focuses on three major frameworks for understanding productive and dysfunctional behaviors in organizations: the behavioral, B.F. Skinner; the psychoanalytic, Sigmund Freud and Carl Jung; and the humanistic, Carl Rogers. Students have an opportunity to apply these theories to their own lives and work situations. Usually offered every spring.

**54.654 Managing Organization Change (3)** Alternative theories and methods of intervention designed to bring about effective organization change. Students develop skills by applying theories and models to organization cases. Usually offered every spring. *Prerequisite:* 54.650 or equivalent.

**54.655 Consultation Skills for Managers (3)** Students apply theories and practices of management and organization consulting. The course emphasizes the processes of entry into the client system, contracting, developing and sustaining a relationship with the client, and bringing a consulting project to completion. Through role-playing, structured experiences, and laboratory work with actual clients, students practice techniques and skills used in consulting work. Usually offered every spring. *Prerequisite:* one foundation-level course in organization development or equivalent.

**54.656 Managing Diversity (3)** Focuses on the challenges managers face as they learn to work creatively and effectively with a diverse, multicultural workforce. The dimensions of diversity and people who are different, and the ways to become a more innovative and appropriate manager of difference are examined and explored. Usually offered every summer.

**54.658 Managing Conflict (3)** This course addresses the dynamics of conflict in organizations at three levels: interpersonal, work group, and inter-group. The origins, manifestation, and evolution of conflict in organizations are examined. Classes intersperse experiential activities with discussions of cases and theory. Participants develop skills, knowledge, strategies, and self-awareness to use in diagnosing and managing conflicts at work. Usually offered every fall. *Prerequisite:* one foundation-level course in organization development or equivalent.

**54.661 Complex Organizations (3)** An analysis of the structure and dynamics affecting the operation of large organizations. Organization culture, structure, decision making, environmental factors, life cycles, and change are among the topics examined. Offered irregularly.

**54.662 Performance Appraisal and Productivity (3)** Performance appraisal is mandated by the Civil Service Reform Act. This course deals with its basic elements,

Including goal setting, individual and organizational performance measurement, coaching and counseling, and productivity improvement among both unionized and non-unionized employees. Usually offered every fall. *Prerequisite:* 54.610 and 54.650.

**54.665 Public Personnel Administration (3)** Policies and managerial processes for dealing with governmental personnel, including staffing, personnel development, classification, performance appraisal, equal employment opportunity, and labor-management relations. Usually offered every year.

**54.667 Labor Relations in Public Employment (3)** Changing relationships between public employers, employees, and organizations of public employees; methods and implications of collective bargaining in the public sector. Usually offered every spring.

**54.674 Practicum Research Project (3)** The practicum focuses on an organizational problem in human resource development, and uses techniques (qualitative or quantitative or both) in organizational diagnosis, intervention and change, and evaluation. Students work under the guidance of a faculty mentor. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

**54.675 Organizational Planning and Control (3)** An introduction to planning theory; an overview of efforts at governmental planning in the United States; an analysis of the techniques used to develop and implement organizational planning and control systems; and an examination of individual and group resistance to planning and the implications of this for public administration. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

**54.676 Politics of Administration (3)** The political context of administration for human resource professionals. Among the themes and principles explored are processes by which policy is formulated and implemented; political approaches to organizational change; political systems from the point of view of function, structure, and process; and formal and informal influence patterns. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

**54.677 Introduction to Organizational Development (3)** The practice of organizational development. Students are given an overview of the theory, terminology, and literature of organizational development, learn about various diagnostic and intervention tools, and have the opportunity to plan for the application of what they have learned in their own organizations. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

**54.678 Legal Issues in Public Administration (3)** EEO and affirmative action, grievance handling, hiring and firing, training, and questions of equity, labor relations, and other issues of likely consultation for organizational management practitioners. This is a study of legal issues associated with the management of public and private sector organizations. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

**54.679 Studies in Human Resource Development (1-3)** Rotating topics, including labor relations for human resource development; organizational diagnosis and intervention for human resource development; personnel administration for human resource development; and institute on group and personal interaction for human resource development. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Organization Development program.

**54.687 Urban Management (3)** Council-manager relationships, work force staffing and development, the budget and community goals, ethical issues, management control, and external and regional effectiveness. Usually offered every fall.

**54.690 Independent Study Project (1-6)**

**54.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**54.693 Practicum in Public Management and Policy Studies (3)** Designed to give students one-on-one supervision and guidance for completing their master's thesis project. Students are individually assigned to a faculty member appointed by the director in accord with their expertise and knowledge in a particular field. Upon completion and presentation of the project report, the faculty adviser submits a final grade for the course. Successful performance in practical financial management projects is an essential ingredient of the program and a major factor in obtaining the degree. Offered irregularly. *Prerequisite:* open only to students in selected contract programs.

**54.710 Seminar in Public Administration (3)** An analysis of the various factors that contribute to the overall performance of the executive branch of government. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* admission to Ph.D. program or permission of instructor.

**54.799 Doctoral Dissertation Seminar in Public Administration (1-12)** May be repeated for credit within the same term; topic must be different. Usually offered every term.

# Computer Science and Information Systems

## Information Systems

### Undergraduate Courses

**55.101 Information and Systems /S (3)** An introduction to the roles of information and systems theory in managerial decision making. The course provides the historical perspective for an appreciation of the information-consciousness of our society. Usually offered every term.

**55.200 Creativity and Computers 1:2 (3)** This course explores how computers enhance the creative process in virtually every aspect of the arts. Examples include computer graphics, multimedia computing in literature and art, synthetic music, and virtual reality systems for simulating stage productions. Usually offered every term. *Prerequisite:* for General Education credit: 05.100 Art: The Studio Experience or 23.105 The Literary Imagination or 67.110 Understanding Music.

**55.210 Introduction to Computer Information Systems (3)** This is the first course in the Computer Information Systems major. It is an introduction to the role of the computer in modern organizations, discussing hardware and software, computer application development, data processing and database systems, and the impact of computer information systems on society. Usually offered every term.

**55.234 Programming Concepts I (3)** Basic concepts of computer programming using COBOL. Development of the algorithmic models used in constructing file edit and report programs. Usually offered every term. *Prerequisite:* 55.210, which may be taken concurrently.

**55.235 Programming Concepts II (3)** Development of the algorithmic models used in constructing file maintenance programs. Exposure to the advanced COBOL facilities such as the sort utility, report writer, and external modules. Usually offered every term. *Prerequisite:* 55.234.

**55.315 Human Factors in Computer Information Systems (3)** Examination of human needs in developing, operating, and using information systems. Methods for analyzing the social, organizational, and human aspects of information systems. Usually offered every spring. *Prerequisite:* 55.210.

**55.325 Computer Hardware and Systems Software (3)** This course covers the major hardware and software components of computer systems as well as issues related to their use by organizations, such as feasibility analysis and hardware and software selection. Usually offered every spring. *Prerequisite:* 55.210.

**55.363 Microcomputer Applications in Computer Information Systems (3)** This course surveys microcomputer hardware and software in information system applications. It examines the capabilities and limitations of microcomputers, discusses hardware and software acquisitions, and reviews software used in information systems. Usually offered every spring. *Prerequisite:* 55.210.

**55.390 Independent Reading in Computer Information Systems (1-6)**

**55.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**55.432 Introduction to Simulation and Modeling (3)** Design and implementation of simulation models for systems design and analysis. Emphasis on discrete stochastic systems and real-world business and government problems including resource allocation, queuing, inventory control, and industrial production. Overview of principal simulation languages and their applicability to problem solving. Usually offered every spring. *Prerequisite:* 41.211 (or 41.221), 42.202, 55.210, and competence in a high-level programming language.

**55.436 Computer Operating Systems Management (3)** Fundamentals of operating systems management techniques directed toward optimum use of computer systems resources. Concepts of resource allocation and management (scheduling and dispatching of central processor and memory, and input/output management) and data management. Language processors, utility programs, telecommunications, and other system software that interact with the primary functions of the central system. Usually offered every spring. *Prerequisite:* 55.210 and 55.325.

**55.440 Database Management in Computer Information Systems (3)** The design, development, and control of databases and applications software based on database. Topics include database models and software, logical and physical database design, applications development, and database administration. Usually offered every fall. *Prerequisite:* 55.235.

**55.450 Information Storage and Retrieval (3)** Introduction to the application of the computer in handling scientific, technical, and scholarly literature. The role of the modern information center in providing management with relevant and up-to-date information back-up for decision making. Usually offered every fall.

**55.455 Introduction to Systems Analysis (3)** Traditional analysis, design through the data flow analysis, and system development life cycle approach. Methods for structured analysis and design are covered. Also treated are data structures, definitions, and normalization. Emphasis is on gaining an ability to use the various tools associated with systems analysis. Usually offered every fall. *Prerequisite:* 55.234.

**55.460 Applied Systems Design (3)** This course builds on previous courses and allows students to apply the tools studied in 55.455. The class follows the life cycle process to produce specifications for a current system, develop the physical design for a new system, and to the extent possible, implement their system. The use of project teamwork is emphasized. Usually offered every term. *Prerequisite:* 55.455.

**55.465 Designing and Writing Computer Documentation (3)** Documentation is required at each stage in the system development life cycle from analysis to maintenance and use. This course discusses the appropriate documentation for each stage, provides guidelines for evaluation, and offers practical work into writing of user

documentation, including on-line documentation. Usually offered every fall. *Prerequisite:* 55.234 and 23.403.

**55.480 Senior Seminar in Computer Information Systems (3)** This capstone course encourages the student to explore the interrelationships between the theory and substance of computer information systems as a field of study. Students and faculty present concepts for critical review. A major project is usually required. Usually offered every term. *Prerequisite:* 55.315, 55.440, 55.480 (may be taken concurrently) and senior standing.

**55.485 Senior Workshop in Computer Information Systems (3)** This is a capstone course in information system development. Students will demonstrate their mastery of the tools and techniques of information system development by participating in the development of a real world information system. Usually offered every term. *Prerequisite:* 55.315, 55.460 and 55.465 and senior standing.

**55.490 Independent Study in Computer Information Systems (1-6)**

### Graduate and Advanced Undergraduate Courses

**55.511 Concepts in Systems and Information (3)** The major concepts and techniques that comprise the systems perspective; applications of systems concepts and related techniques in organizations. Provides an introduction to the major functional areas within information systems, including information systems planning, the systems development life cycle, and structured techniques and tools. Usually offered every term.

**55.515 Human Factors in Information Systems (3)** The human aspects of information systems and their development. The effects of human factors in the design and development phases of the systems development life cycle. Usually offered every term. *Prerequisite:* 55.511, which may be taken concurrently.

**55.532 Advanced Programming Management (3)** A study of software development. Contemporary techniques and philosophies of software design and implementation are examined. Research projects encompass the areas of organizing personnel and stylized techniques of design and implementation. An extensive review of periodical literature is required. Usually offered every fall. *Prerequisite:* competence in a high level programming language.

**55.533 Concepts in Computer Communication (3)** Computer communications and networking. Basic concepts of communication protocols are examined, from simple protocols to support terminal interfaces through various levels of protocol found in modern networks. Usually offered every spring. *Prerequisite:* 55.210.

**55.534 Microcomputer Applications for Managers (3)** Capabilities and limitations of microcomputer applications. When, where, and how microcomputers should be used to support modern systems. A comparative analysis of the major architectural features of current microcomputers, including software, hardware, peripheral devices, and environmental support requirements. Usually offered every term. *Prerequisite:* 55.210 or equivalent and competence in one programming language.

**55.535 Hypermedia Computing (3)** Hypermedia is the integration of text, graphics, animation, sound, and video into a single computer application. This course gives students a broad understanding of the technical aspects of hypermedia application development as well as the conceptual issues that affect this technology. Each student develops an individual hypermedia project based on Hypercard on the Macintosh computer. Usually offered every term.

**55.550 History of Computing (3)** Examines the evolution of computers and information systems, starting with the abacus. The evolution of computing machinery, software, programming languages, and the principal personages in the history of computing. Class discussions inform students about important antecedents to today's computer hardware, software, and systems. Usually offered every spring.

**55.560 Systems Analysis and Design (3)** The methods and processes of systems analysis. Emphasis is placed on analytic tasks relating to systems development, and the organizational and technological context within which these analytical tasks are addressed. Usually offered every term. *Prerequisite:* 55.511 and 55.515, which may be taken concurrently.

**55.590 Independent Reading Course in Information Systems (1-6)**

### Graduate Courses

**55.606 Quantitative Analysis for Information Systems (3)** Quantitative tools applied to the solution of problems in applying, managing, and evaluating information technologies, including statistical, operations-research, and modeling techniques. Usually offered every term.

**55.635 Workshops in Computer Systems Applications (3)** Typical topics are: data base management systems, distributed systems, evaluation and selection of computer systems, privacy and security, and performance evaluation. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 55.511.

**55.640 Economics of Information Systems (3)** Covers the principles of evaluating the worth of an information system to an organization. Topics include: the cost of building information systems and supporting computing systems, analysis of existing information systems, and metrics for measuring information value. Usually offered every fall. *Prerequisite:* 55.511.

**55.647 Project Management (3)** An introduction to the technology of project planning and management with emphasis on large-scale projects and programs. Sources of information concerning funding organizations. Planning and scheduling techniques including PERT, Gantt charts, LOB, and DELTA charts. Special management problems associated with scientific and technical projects. Offered irregularly.

**55.660 Information Systems Design and Development (3)** Methods and processes of systems design and implementation. Focus is on structured methods and tools such as data dictionaries, data structure charts, data



structure diagrams, and entity relationship diagrams. Usually offered every term. *Prerequisite*: 55.560.

**55.661 Telecommunications and Management Information Systems (3)** The relationships of data communications and management information systems. The current state of the art and probable future developments in data communications systems. Usually offered every term. *Prerequisite*: 55.511.

**55.662 Information Systems Management (3)** The management issues and problems of planning, developing, installing, operating, and maintaining information systems in organizations. Special focus is placed on the connection of managerial and technical resources in organizations. Attention is paid to political, economic, and organizational factors. Usually offered every spring and summer. *Prerequisite*: 55.560.

**55.663 Intelligent Information Systems (3)** Information systems increasingly use intelligent systems technologies to improve performance and enhance decision making. This survey of current intelligent systems includes expert systems, neural networks, fuzzy systems, genetic algorithms, and case-based reasoning. The integration of these techniques is also covered. Projects using development shells deepen understanding and provide practical experience. Usually offered every spring. *Prerequisite*: 55.511, 55.515.

**55.665 Analysis and Design Workshop (3)** An advanced information systems course. Students use structured techniques to analyze and design an information system for a real-world organization. Usually offered every fall and spring. *Prerequisite*: 55.660.

**55.667 Information Engineering (3)** Introduces students to the concepts and tools for developing information systems using an information engineering methodology. Lecture material is illustrated with a semester long project using CASE (Computer Aided Software Engineering) tools. Information engineering is contrasted with the traditional system development lifecycle and structured analysis and design. Usually offered every fall. *Prerequisite*: 55.511, 55.560.

**55.668 Data Resources Management (3)** Introduces students to the concepts and techniques of Data Resource Management (DRM), the discipline of managing corporate data as a resource. Topics include: strategic systems planning, business process modeling, data modeling, and data standardization and administration. Identifies and discusses the concerns of DRM. Usually offered every spring. *Prerequisite*: 55.511 and an understanding of databases.

**55.670 Information Resource Management (3)** Examination of Information Resources Management (IRM), as an emerging field that recognizes information as a valuable resource and as such must be managed like all other resources in an organization. Addresses issues related to information resources planning, acquisition, oversight, and management, and technological issues that influence delivery of information such as hardware, software, and telecommunications. Class discussions, critical reviews of literature in the field, and assignments will introduce the

concepts and processes of IRM. Usually offered every spring. *Prerequisite*: 55.511.

**55.690 Independent Study Project in Information Systems (1-6)**

**55.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**55.760 Information Systems Seminar (3)** Research seminar requiring a major research paper relevant to the present issues and challenges of the discipline. Students examine current and emerging technological, organizational, economic, and political issues. Critical reading in the literature of the field is required. Usually offered every fall and spring. *Prerequisite*: 55.660 and 55.662.

**55.797 Master's Thesis Seminar (1-6)** Usually offered every term. *Prerequisite*: completion of field courses and permission of instructor.

## Washington Semester

### Undergraduate Courses

**56.100/101 Washington Summer Seminar (2)** Three-week residential program for advance college credit for high school juniors and seniors. Field study in one of five major components: American Government and Policy Making, U.S. Foreign Policy, Justice and Law in America, Media in America: Print and Broadcast Journalism, or Environmental Policy/Science. Daily seminars both on and off campus with political leaders, decision-makers, and full-time American University faculty. Usually offered every summer. *Prerequisite*: permission of the department.

### Graduate and Advanced Undergraduate Courses

**56.500 Washington Summer Internship (3)** The Washington Summer Internship Program is designed to provide on-the-job training for college students from across the country in their respective fields of interest. Students work four and one-half days each week. The other half day is devoted to seminars with practitioners and small group discussions. Usually offered every summer. *Prerequisite*: Junior, senior, or first-year graduate standing.

## Psychology

### Undergraduate Courses

**57.105 Psychology: Understanding Human Behavior /S 4:1 (3)** Survey of the social bases of behavior and the individual foundations of group and social behavior. The concepts and methodologies of psychology in such areas as social learning, motivation, personality, sex similarities and differences, and abnormal behavior. The interaction between the individual and social institutions is emphasized. Usually offered every term. *Note*: not open to students who have taken 57.100 Introductory Survey of Psychology or 57.105 Psychology as a Social Science.

**57.115 Experimental Foundations of Psychology /N 5:1 (3)** Through lectures and computer exercises, students are introduced to the many experimental questions addressed in psychology (e.g., biological bases of behavior, conditioning and learning, perception, drug use and abuse) as well as to the specific methods used in psycho-

logical research and the general research approaches used in science. Usually offered every term. *Prerequisite:* completion of the College Mathematics Requirement or concurrent enrollment in a mathematics or statistics course that has 41.150 Finite Mathematics as a prerequisite. *Note:* not open to students who have taken 01.301 Foundations of Experimental Psychology or 57.100 Introductory Survey of Psychology.

**57.200 Behavior Principles /N 5:2 (3)** The experimental analysis of behavior (EAOB) systematically relates a behavior's probability to its consequences (reinforcement and punishment). Principles derived from the EAOB are used to explain simple animal learning, stimulus control, behavioral sequences and patterning, verbal and other complex human behavior, and emotion. Issues raised by a behavioral approach to human conduct are discussed. Usually offered every term. *Prerequisite for General Education credit:* 57.115. *Note:* not open to students who have taken 57.110 Behavior Principles.

**57.205 Social Psychology /S 4:2 (3)** The processes of social thinking, such as the attribution of causality and the relation of attitudes to behavior; social influence, such as conformity, obedience, and persuasion; and social relations, including aggression, altruism, prejudice, and attraction. Focus on the individual in social settings. Research methods are emphasized. Usually offered every term. *Prerequisite for General Education credit:* 57.105 or 54.105. *Note:* not open to students who have taken 57.340 Social Psychology.

**57.215 Abnormal Psychology and Society /S 4:2 (3)** Focuses on behavior labeled as abnormal by society. Abnormal behavior as a function of the individual's interaction with social institutions (family, school, legal system, mental-health system, etc.). Introduction to the major concepts, theories, and issues of abnormal psychology. Usually offered every term. *Prerequisite for General Education credit:* 57.105 or 73.100. *Note:* not open to students who have taken 57.350 Abnormal Psychology.

**57.220 The Senses /N 5:2 (3)** An introductory discussion of why things appear as they do. Investigation of our perceptual experiences—their origins, refinements, interpretations, and applications. Discussion of scientific theory and research on the senses. Usually offered every term. *Prerequisite for General Education credit:* 09.110 or 51.100 or 51.105 or 51.110 or 57.115. *Note:* not open to students who have taken 57.303 Perception and Judgement or 57.220 Perception.

**57.230 Theories of Personality /S 2:2 (3)** Students explore and critically compare four major approaches to understanding uniqueness in human behavior, emotion, and thought: holistic, dynamic, learning, and trait/biological. Class debates, exercises, and a paper help students use these theories to understand their own and others' personalities. Usually offered every term. *Prerequisite for General Education credit:* 53.105 or 29.100. *Note:* not open to students who have taken 57.330 Theories of Personality.

**57.240 Drugs and Behavior /N 5:2 (3)** This introduction to psychoactive drugs and their effects includes an overview of general physiology, neurochemistry, and pharmacology as well as a survey of the basic physiological, pharmacological, and behavioral effects of drugs. The

course focuses on the etiology and consequences of addiction and dependence. Critical evaluation of research methodology in drug assessment is stressed. Usually offered every term. *Prerequisite for General Education credit:* 57.115 or 09.100 or 15.100. *Note:* not open to students who have taken 01.201 Drugs and Behavior.

**57.300 Cognitive Psychology (3)** This course provides an overview of cognitive psychology and addresses such topics as attention, pattern recognition, perception, memory, language, and thinking. The so-called higher mental processes are studied through discussion of current empirical research, and through classroom demonstrations and development of pilot projects. Usually offered alternate falls. *Prerequisite:* 57.115 or equivalent or permission of instructor.

**57.315 Self-Management (3)** Principles of cognitive-behavioral self-control for achievement of personal goals. Self-management research is reviewed in weight loss, studying, self-esteem, giving up smoking, drug addiction, depression, time management, and enjoying oneself. Students conduct self-modification projects in group settings. Usually offered every spring and summer. *Prerequisite:* 57.105 and 57.215 or 57.230 or permission of instructor.

**57.318 Fundamentals of Human Neuropsychology (3)** Concerned primarily with the structure, organization, and function of the human brain and the manner in which it produces thoughts, feelings, movement, perceptions, language, and memories. Explores normal brain functioning as well as neurological disorders. Of particular value to students interested in cognition, psychopathology, neurology/medicine, and linguistics. Usually offered alternate falls.

**57.320 Women and Mental Health (3)** This course focuses on women's functioning. Topics include theories of the personality of women, common adjustment problems faced by women, and emotional problems prevalent in women. Usually offered alternate falls.

**57.325 Neurobiological Bases of Behavior /N (3)** Introduction to the biological bases of behavior. Topics include basic neurophysiology (activation of neurons and communication among cells); the basic organization of the nervous system; the role of the brain in receiving stimuli; and the neurobiology of motivated behavior, learning, and behavior disorders. Usually offered alternate springs. *Prerequisite:* 57.115 or permission of instructor. *Note:* not open to students who have taken 57.225 Neurobiological Bases of Behavior or 57.313 Biological Bases of Behavior.

**57.333 Health Psychology (3)** An exploration of how psychological theories and techniques can minimize unnecessary morbidity and premature mortality. Behavioral, cognitive, and affective targets for primary and secondary prevention efforts are identified from epidemiological theory and research. Ways in which psychological methods can contribute to provision of outpatient and inpatient medical services. Usually offered every fall. *Prerequisite:* 57.105 or equivalent or permission of instructor.

**57.335 Psychology of Religion (3)** Classic and contemporary views of religion from a psychological perspective. Review of research methodologies as well as major theorists including Freud, Jung, James, Rizzuto, Erikson,

Otto, Gergen, Allport, Fromm, and Maslow. Usually offered alternate springs.

**57.350 Child Psychology (3)** Introduction to development from infancy through adolescence. Emphasis on theory and research in normal development: genetics, growth, and maturation; sensation and perception; motivation; cognitive and social functioning. Usually offered every term. *Prerequisite:* 57.105 or 57.115 or permission of instructor.

**57.360 The Evolution of Behavior (3)** Approaches to the study of animal and human behavior with emphasis on the explanation of these behaviors in light of ecology and evolution. Topics include aggression, language, sex differences, intelligence, development, learning, and instinct. Usually offered every spring. *Prerequisite:* 57.115 or 57.105 or permission of instructor.

**57.370 Learning and Behavior (3)** Research and theory in animal learning. Covers classical and instrumental conditioning. Ethology and biological constraints on learning. Usually offered alternate springs. *Prerequisite:* 57.115 or permission of instructor.

**57.390 Independent Reading Course in Psychology (1-6)**

**57.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**57.400 Human Memory (3)** This course explores how human memory works. Both theoretical and empirical work on topics such as sensory memory, short- and long-term remembering, rehearsal, forgetting, different types of memories, and memory tests. The latter part of the course concentrates on issues of current interest. Usually offered every spring. *Prerequisite:* 57.115 and 57.300 or permission of instructor. *Note:* not open to students who have taken 57.375 Human Memory.

**57.420 Adolescent Psychology (3)** Study of adolescence as a period of transition. Topics include research and theory on hormonal, emotional, social, and cognitive development in adolescence. The influence of peer pressure, need for self-individuation, and problems of adolescence are also considered. Usually offered every spring. *Prerequisite:* 57.105.

**57.425 Psychology of Eating Disorders (3)** The study of theory, research, diagnosis and treatment as it pertains to nutrition, dieting, exercise, body image, obesity, anorexia nervosa and bulimia nervosa. Usually offered alternate springs. *Prerequisite:* 57.105 or 57.115.

**57.430 Human Sexual Behavior (3)** Basic physiological knowledge, sex education, sexual myths, premarital and marital sexual behavior, homosexuality, pornography, etc. Emphasis on psychological aspects of sex and sexuality. Usually offered every term.

**57.450 Psychology of Well-Being (3)** An overview of the theory, research, and applications in the psychology of well-being. Core topics include self-esteem, relationships and intimacy, competence and achievement, crisis and loss, and meaning and values in life. Usually offered every spring. *Prerequisite:* 57.105 or 57.115.

**57.458 Controversial Issues in Psychology (3)** A seminar that considers some of the fundamental ideas in psychology through reading and discussion. Usually offered every spring. *Prerequisite:* permission of instructor.

**57.470 Introduction to Clinical Psychology (3)** The focus is on two major activities of clinical psychologists: assessment and clinical intervention (psychotherapy and program models). Topics also include the functions, history, training, and ethics of the profession. Usually offered every term. *Prerequisite:* 57.105 or 57.115 and either 57.215 or 57.230.

**57.480 Experimental Psychology (4)** Data and research methods in core areas of psychology. Review of experimental design. Individual and group experiments. Usually offered every term. *Prerequisite:* 42.202 and 57.105 or 57.115.

**57.490 Independent Study Project in Psychology (1-6)**

**57.491 Internship (1-3)** Practical experience in a professional setting in the metropolitan area. For advanced psychology majors. Usually offered every term. *Prerequisite:* permission of instructor and department chair.

**57.497 Topics in Psychology (3)** Individual sections cover advanced topics in psychology and vary from semester to semester. Each section is an intensive course in a specialized area of psychology, such as community psychology, social and clinical judgement, and psychology of infancy. May be repeated for credit in the same term but topic must be different. Usually offered every term. *Prerequisite:* junior standing, three psychology courses and permission of instructor.

**57.498 Senior Thesis Seminar (3)** Students participate in research under the supervision of individual faculty (which should be arranged before enrolling). The proposal, analysis, and conclusions of this research are discussed among other students as well as with departmental faculty. May be repeated for credit but not in the same term; topic may be the same. Honors students are required to take two semesters. Usually offered every term. *Prerequisite:* permission of instructor.

## Graduate and Advanced Undergraduate Courses

**57.501 Physiological Psychology (3)** Anatomical and physiological substrata of behavior. Usually offered alternate springs. *Prerequisite:* junior standing, two psychology courses, and permission of instructor.

**57.502 History and Systems of Psychology (3)** Philosophical and scientific background of modern psychology and contemporary problems of theory construction. Usually offered every fall. *Prerequisite:* 57.115 and senior standing.

**57.505 Advanced Theories of Personality (3)** A critical comparison of how trait, psychodynamic, social-learning, and phenomenological approaches to personality contribute to theory, research, and therapy. Usually offered alternate springs. *Prerequisite:* 57.230 or graduate standing or permission of instructor.

**57.513 Neuropsychology: The Biochemistry of Behavior (3)** Following an overview of central nervous system physiology, this class gives a detailed examination of the

range of neurotransmitters involved in neural communication and modulation. Each neurotransmitter is described in the context of its biochemistry, distribution, pharmacology, and involvement in both normal and abnormal behavior. Usually offered every fall. *Prerequisite:* 57.105 and 57.115 or permission of instructor.

**57.514 Industrial/Organizational Psychology (3)** Application of psychological principles to the field of work. Topics include selection, training, evaluation, leadership, motivation, decision making, job attitudes and satisfaction, organizational structure and theory, and human factors. Usually offered every fall. *Prerequisite:* two psychology courses and one statistics course.

**57.515 Biopsychology Laboratory Methods (4)** Demonstration and practice of commonly used surgical, histological, and electrophysiological methods in biopsychological and neurobiological research. Usually offered alternate springs. *Prerequisite:* permission of instructor.

**57.518 Advanced Human Neuropsychology (3)** Explores the empirical, anatomical, and theoretical aspects of clinical and cognitive human neuropsychology. Topics include object and face recognition; spatial perception; voluntary action; language (oral, writing, and reading comprehension, word and sentence processing, speech production); problem-solving and calculation; memory; and dysfunctions (i.e., agnosias, apraxias, amnesias, and aphasias) illustrated with clinical case studies. Usually offered every spring. *Prerequisite:* permission of the instructor.

**57.521 Ethnic and Minority Issues in Psychology (3)** A review of ethnic and minority issues as they relate to testing, psychotherapy, research, and other aspects of scientific and professional psychology. Usually offered alternate springs.

**57.530 Conditioning and Learning (3)** Seminar for advanced graduate students in psychology. Advanced analysis of operations and principles developed through the systematic study of classical and operant conditioning. Topics are primarily in the area of operant conditioning. Usually offered alternate springs. *Prerequisite:* 57.200 or 57.370 or graduate standing.

**57.533 Cognitive Behavior Therapy (3)** This seminar examines critically the cognitive revolution in behavior therapy. We review the theoretical basis, clinical procedures, and empirical status of several major forms of cognitive behavior therapy, which share the premise that maladaptive thinking is at the core of psychological distress. Usually offered alternate springs. *Prerequisite:* graduate standing or permission of instructor.

**57.540 Advanced Social Psychology (3)** Psychological factors in human social behavior. Examination of research literature with emphasis on design and methodology. Theoretical problems in social behavior and current trends in experimentation. Usually offered alternate falls. *Prerequisite:* permission of instructor. Note: not open to students who have taken 57.640 Advanced Social Psychology.

**57.545 Psychology of Sex Similarities and Differences (3)** Examines the ways that the behavior of males and females are comparable by examining the psychological literature to understand what biological and social-cultural factors influence these behaviors. Considers what

conclusions can be drawn from the existing data and what types of research should be done to further knowledge of gender issues. Usually offered alternate springs. *Prerequisite:* graduate standing or permission of instructor.

**57.550 Psychological Research I (3)** An in-depth examination of experimental design and methods of conducting research in clinical, social, experimental, and biopsychology. Usually offered every fall. *Prerequisite:* 57.480 or graduate standing.

**57.551 Psychopathology: Theory and Research (3)** Case-study seminar on psychopathological behavior. Focus on symptoms and syndromes from conflict/stress-defense model. Usually offered every fall. *Prerequisite:* permission of instructor.

**57.560 Advanced Child Psychology (3)** Current theoretical and research issues in child psychology. Areas of emphasis include socialization, affective development, and cognitive development. Students, from their readings and discussion, critically analyze existing data and formulate questions for further investigation. Usually offered alternate falls. *Prerequisite:* 42.202 and 57.350.

**57.570 Behavioral Medicine (3)** Acquaints students with psychological theory, research, and practical techniques for maintaining health, preventing dysfunctions, and remediating health problems. Topics include cognitive-behavioral techniques for cardiovascular risk reduction (smoking, obesity, stress, diet), exercise enhancement, time management, adherence to medical regimens, and problems with nervous, respiratory, gastrointestinal, and musculoskeletal systems. Usually offered every fall.

**57.575 Human Cognition (3)** After a short review of the field in general this course focuses on some specific issues, both theoretical and applied, that are of current interest in areas such as attention, perception, human memory, and thought processes. Usually offered alternate falls. *Prerequisite:* 57.105 and 57.115 and permission of instructor.

**57.585 Advanced Human Memory (3)** The primary emphasis is on present day memory research. After briefly reviewing a century of theoretical and empirical work in this area, we will tackle issues of current interest such as different kinds of memory, nonverbal memory, autobiographical memory, and several intriguing phenomena that continue to puzzle psychologists. Usually offered alternate springs. *Prerequisite:* permission of instructor.

**57.590 Independent Reading Course in Psychology (1-8)**

**57.597 Topics in Psychology (3)** Individual sections cover advanced topics in psychology and vary from semester to semester. Each section is an intensive course in a specialized area of psychology. May be repeated for credit within the same term: content/topic must be different. Usually offered every term. *Prerequisite:* permission of instructor.

### Graduate Courses

**57.601 Psychological Research II (3)** Research practice and preparation of scientific reports. A laboratory-based course which emphasizes the procedures of designing experiments in various areas of psychology: collection,

analysis and interpretation of data, and preparation of research reports. Usually offered every spring. *Prerequisite*: 57.480 and permission of instructor.

**57.609 Ethics and Professional Practices (3)** Theoretical and conceptual questions and social problems in the area of ethics and professional practice. Ethical standards, codes, and legislation of psychologists and related professions, and ethical problems of community mental health are examined. Usually offered every summer.

**57.618 Principles of Neuropsychological Assessment (3)** Introduces theoretical and empirical principles of neuropsychological assessment. Emphasis on developing skills of behavioral and cognitive observation coupled with an understanding of the underlying functional organization of the human nervous system. Students study representative tests and, in the laboratory and/or in supervised clinical settings, practice their administration, scoring, and interpretation. Usually offered alternate falls. *Prerequisite*: 57.518 and permission of instructor.

**57.630 Psychotherapy: Theory, Research, and Practice (3)** A survey of research literature relevant to the therapist, the client, the relationship and process of psychotherapy. Major theoretical orientations and techniques are reviewed. Usually offered every fall. *Prerequisite*: permission of instructor.

**57.633 Psychological Assessment I (3)** Introduces students to basic principles of psychological assessment. Emphasizes conceptual issues much more than practical applications, though substantive psychological research is used to illustrate the concepts. Helps students learn how to critically evaluate, and contribute to, knowledge regarding measurement of psychological functioning. Usually offered every fall. *Prerequisite*: graduate standing.

**57.650 Assessment of Intellectual Functions (3)** An examination of representative individual tests and their theoretical bases, and laboratory practice in administering, scoring, and interpreting them. Usually offered every fall. *Prerequisite*: 57.633.

**57.651 Personality Testing (3)** Representative personality tests and projective techniques, with laboratory practice in administering, scoring, and interpreting them. Usually offered every spring. *Prerequisite*: permission of instructor.

**57.680 Practicum Training I (3)** Practice in skills related to counseling psychotherapy by systematic exposure to critical elements in interviews through supervision and guided observation. Usually offered every fall. *Prerequisite*: permission of instructor.

**57.681 Practicum Training II (3)** Continuation of Practicum Training I. Usually offered every spring. *Prerequisite*: permission of instructor.

**57.690 Independent Study Project in Psychology (1-6)**

**57.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication. Usually offered every term.

**57.696 Directed Research (3-6)** Consult the department. May be repeated for credit in the same term; topic may be the same. Usually offered every term. May not be used in place of 57.796, 57.797, 57.798, or 57.799.

**57.710 Behavior Therapy Practicum (3)** Review of behavior therapy and cognitive-behavioral techniques. Supervision and co-therapy in application of techniques. Usually offered every spring. *Prerequisite*: Doctoral students in Clinical Psychology. Note: Not open to students who have taken 57.580 Behavior Therapy Practicum

**57.791 Clinical Seminar in Psychotherapy I (3)** Usually offered every fall. *Prerequisite*: permission of instructor.

**57.792 Clinical Seminar in Psychotherapy II (3)** Usually offered every spring. *Prerequisite*: permission of instructor.

**57.796 Master's Thesis Seminar (3)** May not be repeated for credit. Usually offered every term.

**57.797 Master's Thesis Research (1-3)** May be repeated for credit, but not within the same term; topic may be the same. Usually offered every term. *Prerequisite*: 57.796.

**57.798 Doctoral Dissertation Seminar (3)** Usually offered every term.

**57.799 Doctoral Dissertation Research (1-9)** May be repeated for credit, but not within the same term; topic may be the same. Usually offered every term. *Prerequisite*: 57.798.

## Philosophy and Religion

### Philosophy

#### Undergraduate Courses

**60.100 Introduction to Logic (3)** Basic principles of inductive and deductive reasoning. Text and exercises supplemented by readings and discussions in history, philosophy, and applications of logic. Usually offered every term.

**60.105 Western Philosophy / A 2:1 (3)** A historical introduction to the Western philosophical tradition. Students closely examine classic and contemporary texts on the nature of reality, truth, morality, goodness, and justice; the possibility of knowledge; faith, reason, and the existence of God; and the issue of freedom and determinism. Usually offered every term. Note: not open to students who have taken 60.101 Introduction to Philosophy.

**60.200 Selected Basic Topics in Philosophy (3)** Topics include: great ideas that changed history; moral choices in contemporary society; popular issues in philosophy; philosophy, psychology, and the emotions; and existentialism. May be repeated for credit in the same term; topic must be different. Offered irregularly.

**60.210 European Philosophy and the American Experiment / S 2:2 (3)** The founding documents of the American nation—the Declaration of Independence and the Constitution—are uniquely philosophical. Students examine the philosophical writings that influenced the authors of these documents, and analyze the documents against this background. Criticisms of the documents and current disputes about their proper role are considered. Usually offered every term. *Prerequisite* for General Education credit: 53.105 or 60.105 or 29.110.

**60.220 Moral Philosophy /A 2:2 (3)** The theories concerning the nature of goodness found in Western philosophy. The major topics of discussion are: traditional principles for evaluating goodness and telling right from wrong; the difference between fact and value; the justification of normative judgments; objectivity in ethics; and the relationship between moral and nonmoral goodness. Usually offered every term. *Prerequisite:* for General Education credit: 60.105 or 76.150 or 73.110. *Note:* not open to students who have taken 60.320 Ethics.

**60.221 Philosophy, Politics, and Society /A, 9 (3)** Theories of the nature of society and justification of social institutions. Critical study of such social problems as control of technology and the environment, education, militarism, racism, imperialism, civil disobedience, rebellion, and revolution. Usually offered every spring.

**60.225 Ethical Issues in Government, Business, and Media /S 4:2 (3)** The major types of ethical principles that affect individual behavior in public and private institutions. The constraints that organizational structures and technology impose on ethical decision making. Case studies of employee privacy, welfare rights, affirmative action, advertising and research ethics, professional ethical codes, exploitation, developmental ethics, just war theories. Usually offered every fall. *Prerequisite:* for General Education credit: 53.110 or 54.105. *Note:* not open to students who have taken 60.223 Moral Issues in Business and Government.

**60.230 Meaning and Purpose in the Arts /A 1:2 (3)** Leading theories of the nature, purpose, and meaning of artistic activities and objects examined through writings of philosophers, artists, and critics of ancient and modern times. Both Western and non-Western viewpoints are considered. Student projects apply critical ideas to particular works in an art form familiar to them. Usually offered every fall. *Prerequisite:* for General Education credit: 23.105 or 67.110 or 05.100. *Note:* not open to students who have taken 60.330 Aesthetics.

**60.300 Ancient and Medieval Philosophy /A (3)** History of Western philosophy from the earliest period through the sixteenth century. Philosophers and their general cultural milieu. The formation of the classical world view and accommodation of this world picture to requirements of Judaism, Christianity, and Islam. Meets with 60.600. Usually offered alternate falls.

**60.301 Modern Philosophy from Bacon to Hegel /A (3)** Modern Western philosophic ideas are studied in relation to the scientific, cultural, and political environment of seventeenth and eighteenth century Europe. No previous course in philosophy required, but students will find it helpful to have taken 60.300. Meets with 60.601. Usually offered every spring.

**60.302 Nineteenth Century Philosophy (3)** This is the first of two courses that explore the fundamental themes of contemporary Western philosophy and their relation to historical developments, such as the Industrial Revolution, and scientific developments, such as the Darwinian revolution. Among the topics covered are utilitarianism, pragmatism, Marxism, existentialism, and philosophy of science. Meets with 60.602. Usually offered every fall. *Prerequisite:* one introductory course in philosophy.

**60.303 Twentieth Century Philosophy (3)** This is the sequel to 60.302. It explores the fundamental themes of contemporary Western philosophy in view of historical developments, such as the world wars, and intellectual developments, such as Einstein's and Freud's discoveries. Topics covered include pragmatism, Marxism, existentialism, phenomenology, deconstructionism, philosophy of science, and analytic philosophy. Meets with 60.603. Usually offered every spring. *Prerequisite:* one introductory course in philosophy.

**60.310 The Classical Period (3)** Regularly recurring topics include: the pre-Socratics, Plato, Aristotle, Neo-Platonism, and Augustine. Meets with 60.610. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* 60.300 or permission of instructor.

**60.311 Modern European Movements (3)** Regularly recurring topics include: the British empiricists, continental rationalists, Kant, Hegel, and post-Hegelian Idealism. Meets with 60.611. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* one introductory course in philosophy.

**60.312 Recent and Contemporary Philosophers (3)** Regularly recurring topics: Nietzsche, Kierkegaard, Husserl, naturalism, French existentialism, German existentialism, post-existential European philosophy, and analytic philosophy and phenomenology. Meets with 60.612. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

**60.313 Studies in Oriental Philosophy (3)** Regularly recurring topics: Buddhist philosophy, Chinese philosophy. Meets with 60.613. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

**60.314 American Philosophy (3)** The background and substance of American philosophy since colonial times. The role of philosophical ideas, European and indigenous, in the growth of American culture. Meets with 60.614. Usually offered alternate falls. *Prerequisite:* one course in philosophy.

**60.341 Philosophy of the Social Sciences (3)** The nature of explanation, extent of prediction, use of theories, applicability of the methods of natural sciences in the social sciences, and objectivity and value-neutrality of social scientific knowledge. Meets with 60.641. Usually offered every fall. *Prerequisite:* one course in philosophy or permission of instructor.

**60.342 Philosophy of Psychology (3)** After reviewing traditional philosophical problems concerning mind-body dualism, the course explores the various attempts to formulate a naturalistic theory of human cognition and behavior, including neurophysiological approaches, attempts at computer simulation of behavior, artificial intelligence, and problems of rationality, language, and personal identity. Meets with 60.642. Offered irregularly. *Prerequisite:* one course in philosophy or permission of instructor.

**60.353 Metaphysics (3)** Course focuses on one of the following topics: mind and soul, the concept of freedom, analysis and explanation of action, and metaphysics and metaphilosophy. Meets with 60.653. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* two courses in philosophy or permission of instructor.

**60.355 Philosophy of Religion (3)** Leading contemporary movements in the philosophy of religion. Meets with 60.655. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

**60.386 Selected Topics in Philosophy (3)** Themes posed by nonrational challenges to the major scientific and cultural movements in nineteenth and twentieth century thought. Emphasis on the relationships between these developments and their artistic, social, and political counterparts. Topics include: medical ethics, philosophy of language, advanced philosophical argumentation, and philosophy of reason and passion. Usually meets with 60.686. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* 60.105 or permission of instructor.

**60.390 Independent Reading Course in Philosophy (1-6)**

**60.391 Internship in Philosophy and Social Policy (1-6)** Meets with 60.691. Usually offered every term.

**60.392 Cooperative Education Field Experience in Philosophy and Social Policy (3-6)** See description under Cooperative Education in this publication. Meets with 60.692.

**60.490 Independent Study Project in Philosophy (1-6)**

**60.498 Honors Project in Philosophy (3-6)** May be repeated for credit in the same term; topic must be different. *Prerequisite:* permission of department and University Honors Director.

### Graduate and Advanced Undergraduate Courses

**60.500 Modern Deductive Logic (3)** Introduction to modern symbolic methods in deductive reasoning; the merits of competing systems and the philosophical issues involved. Special knowledge of mathematics is not required. Usually offered alternate springs. *Prerequisite:* 60.100 Introduction to Logic or permission of instructor. *Note:* not open to students who have taken 60.350/650 Modern Deductive Logic.

**60.520 Seminar on Ethical Theory (3)** Survey of the development of ethical theory in Western philosophy by analysis of major works in classical and contemporary moral philosophy. Among the issues investigated are the nature of the good and the right, the possibility of moral knowledge, the principles of individual virtue and social justice, the problems of ethical relativism and absolutism, and the foundations of modern conceptions of human rights. Usually offered every fall. *Prerequisite:* one introductory course in philosophy. *Note:* Not open to those who have received credit for 60.386/620 Seminar on Ethical Theory.

**60.525 Seminar on Modern Moral Problems (3)** Investigation of moral philosophers' attempts to analyze specific

moral problems (e.g., abortion, euthanasia, pornography, surrogate parenting, capital punishment, economic justice, affirmative action, research with human subjects, genetic research, government secrecy and deception) and to formulate general principles for ethical analysis of social policies and professional ethics (for lawyers, doctors, etc.). Usually offered every spring. *Prerequisite:* one introductory course in philosophy. *Note:* Not open to those who have received credit for 60.386/625 Seminar on Modern Moral Problems.

**60.545 Seminar on Theories of Human Nature (3)** Theories of the nature of human beings and the human condition. This course considers contemporary as well as historical answers to questions such as, Are we free or determined? rational or irrational? inherently good or evil? selfish or altruistic? spiritual or materialistic? social or individualistic? Usually offered every spring. *Prerequisite:* one introductory course in philosophy. *Note:* not open to students who have taken 60.645 Seminar on Theories of Human Nature.

**60.590 Independent Reading Course in Philosophy (1-6)**

### Graduate Courses

*Note:* Courses at the 600 level generally meet with courses at the 300 level. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

**60.600 Ancient and Medieval Philosophy (3)** History of Western philosophy from the earliest period through the sixteenth century. Philosophers and their general cultural milieu. The formation of the classical world view and accommodation of this world picture to requirements of Judaism, Christianity, and Islam. Meets with 60.300. Usually offered alternate falls.

**60.601 Modern Philosophy from Bacon to Hegel (3)** Modern Western philosophic ideas are studied in relation to the scientific, cultural, and political environment of seventeenth and eighteenth century Europe. No previous course in philosophy required, but students will find it helpful to have taken 60.600. Meets with 60.301. Usually offered every spring.

**60.602 Nineteenth Century Philosophy (3)** This is the first of two courses that explore the fundamental themes of contemporary Western philosophy and their relation to historical developments, such as the Industrial Revolution, and to scientific developments, such as the Darwinian revolution. Among the topics covered are utilitarianism, pragmatism, Marxism, existentialism, and the philosophy of science. Meets with 60.302. Usually offered every fall. *Prerequisite:* one introductory course in philosophy.

**60.603 Twentieth Century Philosophy (3)** This is the sequel to 60.602. The course explores the fundamental themes of contemporary Western philosophy in view of historical developments, such as the world wars, and of intellectual developments, such as Einstein's and Freud's discoveries. Topics covered include pragmatism, Marxism, existentialism, phenomenology, deconstructionism, philosophy of science, and analytic philosophy. Meets with 60.303. Usually offered every spring. *Prerequisite:* one introductory course in philosophy.

**60.610 The Classical Period (3)** Regularly recurring topics include: the pre-Socratics, Plato, Aristotle, Neo-Platonism, and Augustine. Meets with 60.310. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* 60.600 or permission of instructor.

**60.611 Modern European Movements (3)** Regularly recurring topics include: the British empiricists, continental rationalists, Kant, Hegel, and post-Hegelian idealism. Meets with 60.311. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* one introductory course in philosophy.

**60.612 Recent and Contemporary Philosophers (3)** Regularly recurring topics: Nietzsche, Kierkegaard, Husserl, naturalism, French existentialism, German existentialism, post-existential European philosophy, and analytic philosophy and phenomenology. Meets with 60.312. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

**60.613 Studies in Oriental Philosophy (3)** Regularly recurring topics: Buddhist philosophy, Chinese philosophy. Meets with 60.313. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

**60.614 American Philosophy (3)** The background and substance of American philosophy since colonial times. The role of philosophical ideas, European and indigenous, in the growth of American culture. Meets with 60.314. Usually offered alternate falls. *Prerequisite:* one course in philosophy.

**60.630 Aesthetics (3)** Philosophical theories of the meaning and value of art in Western culture, illustrated by reference to works of literature, drama, painting, sculpture, architecture, and music. Students majoring in artistic fields are encouraged to do interdisciplinary projects dealing with application of aesthetic theory to materials in their own fields. Offered irregularly. *Prerequisite:* one course in philosophy or permission of instructor.

**60.641 Philosophy of the Social Sciences (3)** The nature of explanation, extent of prediction, use of theories, applicability of the methods of natural sciences in the social sciences, and objectivity and value-neutrality of social scientific knowledge. Meets with 60.341. Usually offered every fall. *Prerequisite:* one course in philosophy or permission of instructor.

**60.642 Philosophy of Psychology (3)** After reviewing traditional philosophical problems concerning mind-body dualism, the course explores the various attempts to formulate a naturalistic theory of human cognition and behavior, including neurophysiological approaches, attempts at computer simulation of behavior, artificial intelligence, and problems of rationality, language, and personal identity. Meets with 60.342. Offered irregularly. *Prerequisite:* one course in philosophy or permission of instructor.

**60.653 Metaphysics (3)** Course focuses on one of the following topics: mind and soul, the concept of freedom, analysis and explanation of action, and metaphysics and

metaphilosophy. Meets with 60.353. May be repeated for credit but not in the same term; topic must be different. Offered irregularly. *Prerequisite:* two courses in philosophy or permission of instructor.

**60.655 Philosophy of Religion (3)** Leading contemporary movements in the philosophy of religion. Meets with 60.355. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

**60.686 Selected Topics in Philosophy (3)** Themes posed by nonrational challenges to the major scientific and cultural movements in nineteenth and twentieth century thought. Emphasis on the relationships between these developments and their artistic, social, and political counterparts. Topics include: medical ethics, philosophy of language, advanced philosophical argumentation, and philosophy of reason and passion. Usually meets with 60.386. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* 60.105 or permission of instructor.

**60.690 Independent Study Project in Philosophy (1-6)**

**60.691 Internship in Philosophy and Social Policy (1-6)** Meets with 60.391. Usually offered every term.

**60.692 Cooperative Education Field Experience in Philosophy and Social Policy (3-6)** See description under Cooperative Education in this publication. Meets with 60.392.

**60.702 Graduate Seminar in Philosophy (3-12)** Intensive study of selected problems under individual direction. Multiple registrations of three credit hours each for a maximum of twelve hours are permitted during a semester. Topics: history of philosophy, metaphysics, logic, epistemology, philosophy of science, value theory, philosophy of religion, social philosophy, and Eastern philosophy. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* four courses in philosophy and permission of department.

**60.797 Master's Thesis Seminar (1-6)** May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of department chair.

**60.799 Doctoral Dissertation Seminar (1-24)** May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of department chair.

## Religion

### Undergraduate Courses

**61.105 The Religious Heritage of the West / A 2:1 (3)** The contribution of religion to Western civilization. The eastern Mediterranean roots of Western religions, the emergence of Christianity in the Greco-Roman world, and the rise of Islam. The mature religious synthesis of Medieval Europe. Modern secularism's challenge to this tradition. Usually offered every term. Note: not open to students who have taken 61.270 Religious Heritage of the West.

**61.150 Introduction to the Old Testament (3)** Emphasis on substantive content of the Old Testament. Special



attention to historical and cultural background of the text. Usually offered every fall.

**61.170 Introduction to the New Testament (3)** Literary, historical, and theological study of the New Testament. Particular attention to Jesus, Paul, and the development of the Christian movement. Usually offered every spring.

**61.185 Forms of the Sacred: Religions of the East / A 3:1 (3)** This course begins with an introduction to the method of studying the history of religions. A brief survey of primal religions and Judaism and Christianity provides a basis for comparative analysis of the major Eastern religions: Hinduism, Buddhism, Chinese religion, Shinto, and Islam. Usually offered every term. *Note:* not open to students who have taken 61.183 Comparative Religion.

**61.210 Asian and African Religious Traditions / A 3:2 (3)** The religious traditions of South Asia, East Asia, and sub-Saharan Africa. How these religious traditions function as systems of symbols, how they interact with both indigenous religious traditions (in Asia) and external religious traditions (Islam and Christianity), and how they respond to modernization and imperialism. Usually offered every term. *Prerequisite for General Education credit:* 03.110 or 61.185. *Note:* not open to students who have taken 61.305 Philosophies of the East.

**61.220 Religious Thought / A 2:2 (3)** The study of religion and religion's role in life. Beginning with modern approaches to the study of religion, this course examines religious ways of defining the human situation, the quest for salvation, wholeness, and transcendence, and the problem of speaking about the divine within the terms of modern culture. Usually offered every term. *Prerequisite for General Education credit:* 07.100 or 61.105. *Note:* not open to students who have taken 61.180 Introduction to Religious Thought.

**61.231 Judaism and Christianity (3)** Basic issues in biblical and post-biblical literature of Judaism and Christianity, such as nature of covenant, Messiah, kingdom-state, law, and faith. Usually offered every spring.

**61.300 Contemporary Religious Thought (3)** Major currents in nineteenth and twentieth century Jewish and Christian religious thought. The origins of religious existentialism, rise of modern atheism, conflict with natural and social sciences, influence of historical-critical method, development of religious liberalism, and the twentieth-century reaction of neo-orthodoxy and "crisis theology." Meets with 61.600. Usually offered alternate falls.

**61.370 Islam (3)** Hundreds of millions of people adhere to Islam, sometimes described as the world's fastest growing religion. Students examine historical origins, Prophet Muhammad, Quran, and other formative elements underlying the modern Muslim situation. Meets with 61.670. Usually offered alternate falls.

**61.373 Hinduism (3)** This amazingly vital, age-old religion has more than once extended its influence as a religion of truly worldwide significance. Origins, early literature, and main expressions of Hinduism (including Yoga, Bhakti, and cult of the Divine Mother) are presented. Students develop topics of their own interest. Meets with 61.673. Usually offered every spring.

**61.386 Topics in Religious Discussion (3)** Examination of important problems, thinkers, and issues in classical and contemporary religious thought. Recent offerings have included: Thought of Reinhold Niebuhr, Philosophical Theology of Paul Tillich, Thought of Rudolf Bultmann, God Talk, Problem of God, Social Scientific Study of Religion in Small Group Process, New Religious Movements, Occult World, Johannine Literature, The Catholic Tradition, Prophets and Politics, The Gospels, and Varieties of Early Christianity and Their Modern Counterparts. Meets with 61.686. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

**61.390 Independent Reading Course in Religion (1-6)**

**61.490 Independent Study Project in Religion (1-6)**

**61.498 Honors Project in Religion (3-6)** *Prerequisite:* permission of department chair and university honors director.

## Graduate and Advanced Undergraduate Courses

**61.590 Independent Reading Course in Religion (1-6)**

## Graduate Courses

*Note:* Courses at the 600 level generally meet with courses at the 300 level. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

**61.600 Contemporary Religious Thought (3)** Major currents in nineteenth and twentieth century Jewish and Christian religious thought. The origins of religious existentialism, rise of modern atheism, conflict with natural and social sciences, influence of historical-critical method, development of religious liberalism, and the twentieth-century reaction of neo-orthodoxy and "crisis theology." Meets with 61.300. Usually offered alternate falls.

**61.670 Islam (3)** Hundreds of millions of people adhere to Islam, sometimes described as the world's fastest growing religion. Students examine historical origins, Prophet Muhammad, Quran, and other formative elements underlying the modern Muslim situation. Meets with 61.370. Usually offered alternate falls.

**61.673 Hinduism (3)** This amazingly vital, age-old religion has more than once extended its influence as a religion of truly worldwide significance. Origins, early literature, and main expressions of Hinduism (including Yoga, Bhakti, and cult of the Divine Mother) are presented. Students develop topics of their own interest. Meets with 61.373. Usually offered every spring.

**61.686 Topics in Religious Discussion (3)** Examination of important problems, thinkers, and issues in classical and contemporary religious thought. Recent offerings have included: Thought of Reinhold Niebuhr, Philosophical Theology of Paul Tillich, Thought of Rudolf Bultmann, God Talk, Problem of God, Social Scientific Study of Religion in Small Group Process, New Religious Movements, Occult World, Johannine Literature, The Catholic Tradition, Prophets and Politics, The Gospels, and Varieties of Early Christianity and Their Modern Counterparts. Meets with 61.386. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

**61.690 Independent Study Project in Religion (1-6)**

**61.797 Master's Thesis Seminar (1-6)** Usually offered every term. *Prerequisite:* permission of department chair.

## Sociology

### Undergraduate Courses

**65.100 American Society /S 4:1 (3)** American pluralism and the variety of social arrangements and relationships found in American society. The emphasis is on how society is stratified; how organizations and institutions influence the way Americans think, talk, feel, and act; and how different groups (racial and ethnic) and divisions (gender and class) within society have differential access to power and privilege. Usually offered every term. *Note:* This course is a prerequisite for all 250-400 level sociology courses. Not open to students who have taken 65.302 American Society or 65.200 Introduction to Sociology.

**65.110 Views from the Third World /S 3:1 (3)** Introduction to the sociology of the Third World through study of the works of its own intellectuals and political leaders. Reflections on Third World societal structures and explanations of dilemmas of development and of strategies for overcoming these dilemmas. The course links texts to their Third World context. Usually offered every term.

**65.201 Marriage and Family Living (3)** Recent changes in the American family: modern dating, mate selection, engagement, early marital adjustment, communication, money, working wife, sex, and in-law problems. Not open to first-semester freshmen. Usually offered every term.

**65.205 The Family /S 4:2 (3)** The family as a social institution in a changing society. Social inequalities of class, race, ethnicity, and gender as key factors in shaping diverse forms and experiences in family life. Theoretical and actual alternatives to family patterns as well as the future of the American family. Usually offered every fall. *Prerequisite for General Education credit:* 03.150 or 57.105. *Note:* not open to students who have taken 65.382 The Family.

**65.210 Inequality and Stratification /S 4:2 (3)** Structured inequality in society in socioeconomic, racial, and gender terms. How the individual's life and experiences are circumscribed and structured by his or her position in the social stratification system. How and why stratification systems emerge and are reproduced and their alternatives. Usually offered every term. *Prerequisite for General Education credit:* 65.100 or 53.110. *Note:* not open to students who have taken 65.350 Social Inequality.

**65.215 The Rise of Critical Social Thought /S 2:2 (3)** Issues about social science as a critical vision of society; imagined social possibilities and their comparison to existing social institutions. Secondary themes are individual development, community, large societal institutions, the effects of industrialism and capitalism, and the limits of social science knowledge as a guide to social planning and social action. Usually offered every term. *Prerequisite for General Education credit:* 60.105 or 73.110 or 76.150.

**65.220 Work and Leisure in America /S 4:2 (3)** A cultural, socio-political, and economic analysis of how people in the U.S. and other parts of the world work and play. Examines the development of American forms of

work and leisure organizations and the impact of gender, race, and class on work and leisure. The sociological concepts of alienation, stress, and role conflict are used to explore the effect of work and non-work (such as retirement and unemployment) on the individual and society. Usually offered every spring. *Prerequisite for General Education credit:* 19.100 or 54.105 or 65.100. *Note:* not open to students who have taken 65.360 Sociology of Work.

**65.225 Contemporary Arab World /S 3:2 (3)** The social, economic, and political structure of the Arab World with special emphasis on the impact on this region of the rise and fall of oil revenues. A macrosociological approach places the region in the global political economy and introduces students to its problematics and historical-cultural specificity. Usually offered every term. *Prerequisite for General Education credit:* 33.105 or 65.110 or 61.185.

**65.230 Conflict and Change in Latin America /S 3:2 (3)** An introduction to Latin America through the lens of sociology. Latin American forms of economic and political organization and the societal conflicts over them. Alternative Latin American models for development and change; who has advocated each model and why. Usually offered every term. *Prerequisite for General Education credit:* 65.110 or 19.110.

**65.235 Women in the Third World 3:2 (3)** Focusing on Third World women and social change in different cultural contexts and in the global political-economic system, this course emphasizes the centrality of women in the rapidly changing world, particularly in terms of work, distributive justice, development policy, democratization, and the environment. *Prerequisite for General Education credit:* 19.110 or 23.150 or 65.110.

**65.280 Sociological Examination of Italy since World War II (3)** Examination of significant facets of Italian society in the period since World War II with a comparison of Italian and American experience. Offered only in Rome. Usually offered every term.

**65.301 Social Problems (3)** Theoretical and sociological perspectives on current social problems; for example, medicine, education, racism, terrorism, welfare, sexism, mental illness, population, energy, pollution, alienation, and war. Social problems are examined at four levels: individual, group and community, national, and worldwide. Usually offered every spring and summer. *Prerequisite:* 65.100.

**65.303 Deviance and Social Control (3)** Analysis of the relationship of social control to social inequality and social change, with deviance studied in this context. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

**65.320 Introduction to Social Research (3)** An introduction to the major research methods in social science, their links to theory and practice, and their use in research projects. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

**65.330 Social Change and Social Conflict (3)** Analysis of the causes, processes, and consequences of social change. Examination and analysis of theories of social change. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

**65.391 Political Sociology (3)** Analysis of the contributions of classical sociological writers to theory and research in politics. Methods and techniques of examining political behavior and institutions. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

**65.392 Law and Society (3)** Study of the relationship between social reality and law. Analysis of contradictions between legal norms and social structure in the process of change. Usually offered every spring. *Prerequisite:* 65.100 or permission of instructor.

**65.393 Capitalism, Socialism, Communism (3)** Analysis of contemporary societies. Comparative study of social conditions, institutions, values, and relations between societies. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

**65.340 Social Interaction (3)** Sociological perspective of the relationships between individuals and groups. Socialization roles in small and complex organizations, mass communication, and social movements. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

**65.342 Social Psychology of Intergroup Tensions (3)** Intergroup prejudice and its relation to other aspects of personality and social behavior. Recent research on the determinants of intergroup attitudes. Techniques for the reduction of intergroup tension. Usually offered every spring. *Prerequisite:* 65.100 or permission of instructor.

**65.351 Race and Ethnic Relations (3)** A focus on what happens when divergent types of persons effect social contact. Racial, ethnic, tribal, national, and religious interactions throughout the world. The processes include conflict, amalgamation, acculturation, assimilation, prejudice, and discrimination. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

**65.352 Women and Society (3)** Location and description of women in population. The nature and extent of prejudice and discrimination against women. The significance of female equality to the social order. Usually offered every spring. *Prerequisite:* 65.100 or permission of instructor.

**65.380 Religion and Society (3)** Concepts, methods, and techniques in the sociological analysis of religion. Historical, comparative, and functional approaches to religion. Emphasis on European and American Christianity. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

**65.381 Social Aspects of Mass Communications (3)** An introduction to mass-media research from a sociological perspective. Special attention to current empirical research on public opinion, the power of the communications media, and the effects of the media on adults and children. Usually offered alternate springs. *Prerequisite:* 65.100 or permission of instructor.

**65.387 Urban Sociology (3)** Analysis of contemporary life in cities. Study of development, theories, and problems of urban life. Comparative and research perspectives. Usually offered every spring. *Prerequisite:* 65.100 or permission of instructor.

**65.389 Environment and Society (3)** Exploration into the relationship between social groups and the physical

environment. Focus on the actions and reactions of public and policy groups in identifying and coping with natural and technological problems. Analysis of specific socio-environmental problems and the roles and methods of social scientists and others in social-impact assessment and social change. Offered irregularly.

#### **65.390 Independent Reading Course in Sociology (1-8)**

**65.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**65.410 Classical Sociological Theory (3)** Historical background of theories, concepts, and methods of sociology. The emergence and characteristics of the most significant sociological systems. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

**65.411 Contemporary Sociological Theory (3)** An analysis of modern sociological theories and schools of thought. Logic and procedures of theory construction. Usually offered every spring. *Prerequisite:* 65.410.

**65.422 Survey Research Methods (3)** An overview of survey research advantages and limitations. Practical experience in all phases: design, sampling, questionnaire construction, interviewing, field-work organization, datafile creation, computerized data analysis, and report writing. Offered irregularly. *Prerequisite:* 65.320 or permission of instructor.

**65.423 Social Policy Research (3)** An overview of major issues in social-policy program evaluation. Types of evaluations and basic research methods appropriate to each. Practical experience in designing and carrying out both qualitative and quantitative evaluations of social programs. Offered irregularly. *Prerequisite:* 65.320 or permission of instructor.

#### **65.490 Independent Study Project in Sociology (1-6)**

**65.491 Internship (3-6)** Internship in social service, social change, and social research agencies. Internships in social research agencies require completion of 65.320. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor. Permission of department chair and instructor required.

#### **65.496, 65.499 Honors: Senior Year (1-8)**

#### **Graduate and Advanced Undergraduate Courses**

**65.515 Models of Societal Development (3)** Analysis of the structure and dynamics of whole societies in the modern global system. Paradigms of societal development: classical Marxism, modernization, dependency, articulation of modes of production, world-system theory, neo-Marxism, neomodernization, etc. Consideration of growth with equity, structural adjustment, privatization and sustainable growth policies on societal structure and change. Usually offered every spring. *Prerequisite:* graduate standing or three courses in sociology. *Note:* not open to students who have taken 65.530 Macrosociology.

**65.531 Regional Studies in Social Change (3)** Topical courses examining social change in different parts of the world as a cause and consequence of economic develop-

ment. Emphasis on the social effects of governmental or corporate policies. Examples include Latin America and the Middle East. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite*: graduate standing or three courses in sociology.

**65.540 Social Psychology: Sociological Perspectives (3)** The relationships between person and group: concepts, theories, and methods. Interaction of social-structure variables and personality development, adult socialization and aging, collective behavior, and intergroup relations. Usually offered every spring. *Prerequisite*: graduate standing or three courses in sociology.

**65.550 Studies in Social Stratification and Mobility (3)** Class, status, and power relations in society. Caste, estate, social class, and social mobility. Theories and research findings of current importance. Usually offered every spring. *Prerequisite*: graduate standing or three courses in sociology.

**65.560 Work: Sociological Perspectives (3)** The relationships between social structure, occupational structure, and the kinds of work available. The organization of work and the way people carry out their work. Usually offered every fall. *Prerequisite*: graduate standing or three courses in sociology.

**65.570 Sociology of Gender and Family (3)** The study of gender and family as basic principles of the social order and primary social categories. Introduces students to the theories, data sources and applications of family structures and gender relationships in the United States and cross-culturally. Usually offered every fall. *Prerequisite*: graduate standing or three courses in sociology.

**65.580 Social Policy Analysis (3)** Examines the variety of conceptual frames that social scientists use in analyzing social policies and provides a basis for their selection. A second part deals with the detailed analysis of case studies and introduces practitioners who contributed to them. Usually offered alternate falls. *Prerequisite*: graduate standing or three courses in sociology.

**65.590 Independent Reading Course in Sociology (1-6)**

### Graduate Courses

**65.610 History of Sociological Theory (3)** Comparative study of major theorists in the nineteenth and twentieth centuries. Usually offered every fall.

**65.611 Modern Sociological Theory (3)** An analysis of modern sociological theories and major schools of social thought. Problems of theory construction. Usually offered every spring. *Prerequisite*: 65.610.

**65.620, 65.621 Social Research I, II (3), (3)** Conceptual and procedural aspects of research, with some accent on quantitative methods. Formulation and specification of research questions, development of research designs, and translation of plans into action (measurement, data collection, data processing, and preparation of research reports). 65.620 usually offered every fall; 65.621 usually offered every spring.

**65.630 Conflict and Change: Macrosociological Perspectives (3)** Analysis of socio-political processes in the development of national, regional, and world systems. The

formation of social movements in this context. Usually offered every spring. *Prerequisite*: 65.515 or permission of instructor.

**65.650 Class and Stratum: Organization and Consciousness (3)** Comparative analysis of the formation, organization, conflict, and consciousness of classes and strata. Includes analysis of associated systems of belief. Usually offered every fall. *Prerequisite*: 65.550 or permission of instructor.

**65.670 Gender, Family, and Work (3)** Informs students about the interrelationship between work and family for both men and women. The course deals with research and policy concerns in both a national and cross-cultural perspective. Usually offered alternate springs. *Prerequisite*: 65.560, 65.570, or permission of instructor.

**65.680 Social Policy Research (3)** An introduction to research techniques in the fields of applied sociology, evaluation research, and the interdisciplinary arena of social policy studies. Provides students with the necessary sociological context and methodological expertise for participating in practical social policy research. Usually offered every fall. *Prerequisite*: 65.580 or permission of instructor.

**65.690 Independent Study Project in Sociology (1-6)**

**65.691 Internship (3)** May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite*: graduate standing and authorization of dean and instructor.

**65.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**65.710 Seminar in Sociological Theory (3)** Intensive study of selected areas or schools of sociological thought. Emphasis on the use of primary source materials. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite*: fully satisfactory performance on the theory comprehensive examination and permission of instructor.

**65.720 Seminar in Social Research (3)** Advanced study in selected methodological approaches and research techniques in social research. May be repeated for credit in the same term; topic must be different. Offered irregularly. *Prerequisite*: fully satisfactory performance on the methods comprehensive examination and permission of instructor.

**65.750 Seminar in Social Stratification (3)** Exploration and criticism of theoretical and methodological aspects of the field. May be repeated for credit in the same term; topic must be different. Usually offered alternate springs. *Prerequisite*: permission of instructor.

**65.770 Seminar in Gender and Family (3)** The focus of this seminar is on reconstructing social science knowledge and encouraging primary research using gender as a guiding analytic category along with race and social class. Usually offered alternate falls. *Prerequisite*: permission of instructor.

**65.795 Master's Research: Independent Study in Sociology (3)** Directed research under the supervision of a faculty member selected by the student. Preparation of a

substantial research report on a topic related to the student's field of concentration. Offered irregularly. *Prerequisite*: permission of instructor.

#### **65.797 Master's Thesis Independent Study (1-6)**

**65.799 Doctoral Dissertation Independent Study (1-12)** Directed dissertation research under the supervision of the student's dissertation committee chair. Open to graduate students whose dissertation proposal has been approved by the department. Usually offered every term.

## **Performing Arts: Music, Theatre, Dance, and Arts Management**

### **Undergraduate Courses**

**67.102 Modern Dance I /A (3)** Introduction to beginning modern dance techniques. In addition to focusing on correct alignment and kinesthetic awareness, the course includes videotapes, readings, and attendance at live dance performances. Usually offered every term.

**67.103 Beginning Jazz Dance /A (3)** An introduction to jazz dance techniques. In addition to focusing on correct alignment and precise body articulation in the jazz idiom, the course includes videotapes, readings, class observations, and attendance at live dance performances. Usually offered every term.

**67.104 Beginning Ballet (3)** Development of technical skills in classical ballet vocabulary. Usually offered every term.

**67.108 Beginning Tap Dance (3)** Introduction to tap dance technique, focusing on rhythmic awareness and tap skills. This course includes videotapes, readings, and attendance at live dance performances. Usually offered every term.

**67.109 Dance Practicum (1)** Provides the student with the opportunity to continue his/her current level of dance technique course. Student may register for practicum only if he/she has completed the 3 credit dance course at the 100 level. May be repeated for credit within the same term; dance technique must be different for each credit hour. Usually offered every term. *Prerequisite*: completion of equivalent 3 credit dance technique course and permission of Director of Dance.

**67.110 Understanding Music /A 1:1 (3)** An introduction to musical language through listening and comprehension. The fundamentals of acoustics, melody, harmony, form, texture, and color in a wide range of music from ancient and global music to European concert music. Includes listening and concert attendance requirements. Usually offered every term. Note: not open to those who have taken 67.120 Music Appreciation I.

**67.115 Theatre: Principles, Plays, and Performance /A 1:1 (3)** An overview of the principles of drama from the ancient Greeks to contemporary society. The class draws on theatre history and social context, the reading of great literature, critical analyses, and artistic exploration to culminate in the experience which is the essential element of the art itself—performance. Usually offered every term. Note: not open for credit to students who have taken 67.150 Introduction to Performing Arts: Theater.

**67.122 The Evolution of Jazz and Blues /A (3)** Cultural sources and growth of divergent stylistic characteristics of jazz and rock through the past hundred years. Usually offered every term.

**67.123 Selected Topics in Music (3)** Study of an area such as orchestral, chamber, opera, American, folk, and twentieth century music. Previous offerings have included: Music, Performance, and Society; and Beethoven: The Hero Individual in Music. May be repeated for credit in the same term; topic must be different. Usually offered every term.

**67.124 Music Theory I: Basic Harmony and Analysis (3)** The triad and seventh chords with their inversions, harmonic function and progression, cadences, four-part harmonization, simple modulation using secondary dominants, and pivot chords. Usually offered every fall. *Prerequisite*: 67.126 or ability to read music notation.

**67.125 Music Theory II: Continuing Harmony (3)** Classical harmonic structure including chromatically altered chords. Consideration of form by analysis and composition. Usually offered every spring. *Prerequisite*: 67.124 or equivalent.

**67.126 Music Theory for Nonmajors /A (3)** A study of rhythm, modes, scales, intervals, chords, and basic musical forms. Usually offered every term.

**67.127 Musicianship I (3)** Reading, hearing, playing, singing, and conducting of simple diatonic musical materials. Usually offered every fall.

**67.128 Musicianship II (3)** The second semester of a comprehensive program of music reading, singing, keyboard, and conducting. Usually offered every spring. *Prerequisite*: 67.127.

**67.142 Concert Choir (1)** Prepares and presents major works of choral literature. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite*: audition.

**67.143 University Singers (2)** Small, highly select, traveling choral ensemble which presents both sacred and secular programs. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite*: audition.

**67.144 University Orchestra (1)** Concerts, sight-reading, and study of selected compositions. Open to all students, faculty, and staff. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite*: permission of instructor.

**67.145 Instrumental Ensembles (1)** String, mixed, and wind ensembles, and jazz workshop. Open to students, faculty, and staff. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite*: permission of instructor.

**67.160 On Stage! Dance—Music—Theatre /A 1:1 (3)** A stage performance of a work of art is a highly controlled presentation using the artistic elements of space, move-

ment, time, sound, and color. This study explores how these elements can be used to bring about audience reactions to dance, music, and theatre. Usually offered every term.

**67.181 Stage Make-Up (1)** Basics of stage make-up: make-up material, make-up lists, color charts, facial anatomy, and corrective make-up. Usually offered alternate springs.

**67.200 Dance and Society /A 1:2 (3)** Students learn about the cultural importance of dance throughout history, including its ritual, social, and theatrical functions. Students discover the diverse ways and cultural contexts in which people express fundamental experiences and emotions through dance. Usually offered every spring. *Prerequisite for General Education credit:* 67.160 or 67.115.

**67.202 Modern Dance II (3)** Continuation of 67.102. Usually offered alternate falls. *Prerequisite:* 67.102 or permission of instructor.

**67.203 Intermediate Jazz Dance (3)** An in-depth technique class for more advanced jazz students. Usually offered every term. *Prerequisite:* 67.103 or permission of instructor.

**67.204 Intermediate Ballet (3)** Development of technical skills and performance ability in classical ballet vocabulary. Usually offered alternate years. *Prerequisite:* 67.104 or permission of instructor.

**67.205 Masterpieces of Music /A 1:2 (3)** Listening to and analyzing masterpieces of Western music from the Middle Ages to the present day. The course includes a variety of genres and styles with background study into the historical era and particular composers. Usually offered every spring. *Prerequisite for General Education credit:* 67.110. *Note:* not open to those who have taken 67.121 Music Appreciation II.

**67.208 Intermediate Tap Dance (3)** An in-depth technique class for more advanced tap dance students. Usually offered every term. *Prerequisite:* 67.108 or permission of instructor.

**67.209 Dance Practicum (1)** Provides the student with the opportunity to continue his/her current level of dance technique course. Student may register for practicum only if he/she has completed the 3 credit course at the 200 level. May be repeated for credit within the same term; dance technique must be different for each credit hour. Usually offered every term. *Prerequisite:* completion of equivalent 3 credit dance technique course and permission of Director of Dance.

**67.210 The Great Composers: Lives and Music /A 1:2 (3)** The place of music in society is reflected in the lives and work of a series of major composers who represent contrasting eras, nationalities, musical styles, and aesthetic goals. Students examine the social history of music through listening, analysis, reading, and research into the fascinating people who have made music. Usually offered every fall. *Prerequisite for General Education credit:* 67.110 or 67.105 or 67.160.

**67.215 Opera on Stage and Film /A 1:2 (3)** Classics of operatic repertoire. Through readings, viewing videotapes, and attending live productions, students confront the

literary sources, dramatic and musical structures, cultural forces, and the social, political, and historical environments that shaped the works and gave them life. Usually offered every spring. *Prerequisite for General Education credit:* 67.110 or 23.135 or 67.160.

**67.220 Reflections of American Society on Stage and Screen /A 1:2 (3)** Artistic and cultural developments and societal phenomena as reflected in stage, film, and television performance in the twentieth century United States. By reading the written versions and viewing the productions, students investigate and analyze the relationships between the creative artists, their produced works, and the societal contexts within which they originated. Usually offered every term. *Prerequisite for General Education credit:* 17.105 or 23.135 or 67.160.

**67.225 The African American Experience in the Performing Arts /A 1:2 (3)** African American contributions to uniquely American forms and institutions in the performing arts. The course examines the artistic and cultural implications of these forms—from minstrelsy, vaudeville, and tap dance to jazz, blues, and gospel—set against the societal phenomena that shaped them, as well as the influence of African Americans on the broad range of performing arts genres, including musical theatre, drama, comedy, dance, and film. Usually offered every fall. *Prerequisite for General Education credit:* 17.105 or 23.135 or 67.110.

**67.227 Musicianship III (3)** The continuation of musicianship into the second year with addition of chromatic materials. Usually offered every fall. *Prerequisite:* 67.128.

**67.228 Musicianship IV (3)** The continuation of musicianship training with advanced materials and singing, reading, and keyboard. Conducting of these. Usually offered every spring. *Prerequisite:* 67.227.

**67.251 Fundamentals of Acting I (3)** Beginning performance skills for actors, including elementary scene study, stage movement, and role analysis. Usually offered every term.

**67.252 Fundamentals of Acting II (3)** A continuation of study in beginning performance skills for actors. Includes scene study, textual analysis, and character exploration. Usually offered every term. *Prerequisite:* 67.251 or permission of instructor.

**67.260 Principles of Production I (4)** Techniques of stagecraft including scenery, properties, lighting, and sound, along with theatrical production philosophy and organization and an overview of the process of design. Mandatory lab sessions provide experience in scenic construction, basic electricity and stage lighting, and live-performance support. Usually offered every fall.

**67.261 Principles of Production II (4)** Continuation of 67.260. Concentrates on the artistic concepts of technical production and how production concepts are realized in stage performance. Usually offered every spring. *Prerequisite:* 67.260.

**67.265 Theatre Practicum (1)** Provides the student with practical experience in designated areas of technical theatre: set construction and lighting, costuming, public relations, and stage management. May be repeated for

credit but not within the same term; topic must be different. Usually offered every term.

**67.302 Modern Dance III (3)** Continuation of 67.202. Meets with 67.602. Usually offered every term. *Prerequisite:* 67.202 or permission of instructor.

**67.303 Advanced Jazz Dance (3)** An advanced approach to complex combinations using jazz dance vocabulary and dynamics. Emphasis is on rhythmic acuity, spatial awareness and performance projection. The course includes readings, written assignments, concert and video critiques. Usually offered every spring. *Prerequisite:* 67.203.

**67.304 African Dance (3)** Students learn the Inter-relationship between movement and sound in African dance and develop a sense of creative expression and group interaction. Assigned readings, class trips, concert viewings, and class discussions enhance the participants' knowledge of traditional African society while providing a historical outlet for cross-cultural understanding and appreciation. Usually offered every term.

**67.305 History and Philosophy of Dance I: Fifteenth-Nineteenth Century (3)** The evolution of Western theatrical dance, with emphasis on the fifteenth through the nineteenth centuries. Meets with 67.605. Usually offered alternate falls.

**67.306 History and Philosophy of Dance II: Twentieth Century (3)** A chronological survey of dance in the twentieth century. Writings and videos of contemporary dance authorities and artists are used as source materials. Meets with 67.606. Usually offered alternate falls. *Prerequisite:* 67.305.

**67.309 Dance Practicum (1)** Provides the student with the opportunity to continue his/her current level of dance technique course. Student may register for practicum only if he/she has completed the three credit dance course at the 300 level. May be repeated for credit within the same term; dance technique must be different for each credit hour. Usually offered every term. *Prerequisite:* completion of equivalent 3 credit dance technique course and permission of Director of Dance.

**67.320 Music Theory III: Modal Counterpoint (3)** Investigation of monodic and contrapuntal writing from Gregorian chant through Palestrina by analysis and composition. Usually offered alternate falls. *Prerequisite:* 67.126 or equivalent.

**67.321 Music Theory IV: Tonal Counterpoint (3)** Contrapuntal writing and analysis of the invention, chorale prelude, fugue, and other imitative forms. Usually offered alternate springs. *Prerequisite:* 67.320.

**67.322 History of Music I: From Antiquity to 1700 (3)** Music in Western civilization from ancient times to the eighteenth century, including a brief survey of primitive and oriental music. Illustrated with slides and recordings. Usually offered alternate falls. *Prerequisite:* ability to read music notation.

**67.323 History of Music II: From 1700 to the Present (3)** Music in Western civilization from the eighteenth century to the present. Illustrated with slides and recordings. Usually offered alternate springs. *Prerequisite:* ability to follow a musical score.

**67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3)** Examination of the structural principles of tonal music from the baroque through the romantic periods. Usually offered alternate falls. *Prerequisite:* 67.125.

**67.325 Music Theory VI: The Twentieth Century (3)** Diverse styles and compositional techniques of the twentieth century are examined through analysis. Usually offered alternate springs. *Prerequisite:* 67.324.

**67.340 From Scene into Song (3)** Focuses on the theoretical and experiential exploration of the component skills necessary for the music theatre form. Students acquire skills for application to the difficult aesthetic task of vocal delivery combined with a portrayal of a believable character. Usually offered every spring. *Prerequisite:* 67.127, 67.128, and 67.251.

**67.342 Vocal Techniques for Music Theatre (3)** Offers students the opportunity to learn about the function, anatomy, care, and use of the vocal instrument. Topics include the psychological aspects of singing, posture and breathing, phonation, resonance and vocal quality, articulation, vocal problems, diction, spontaneity, and artistry. Usually offered alternate falls. *Prerequisite:* 67.127, 67.128, and 67.251.

**67.346 Survey of Music Theatre (3)** An overview of the historical development of music theatre from its earliest beginnings to the 1980s. Students view films and listen to music, analyzing the work of important composers and librettists. Important operatic milestones are included and their musical influence on the genre analyzed. European roots are studied. Usually offered alternate falls. *Prerequisite:* 67.251.

**67.350 Fundamentals of Acting III (3)** An intermediate-level acting class focusing on character analysis within the scene and within the play. Class discussion, instructor critique, improvisation, and vocal and physical warm-up are emphasized. Usually offered alternate falls. *Prerequisite:* 67.251 and 67.252 or permission of instructor.

**67.351 Movement for Actors (3)** Continuation of 67.350 with a focus on movement improvisation and the exploration of physical actions as a means of creating character. May be repeated for credit but not within the same term; topic may be the same. Usually offered every spring. *Prerequisite:* 67.350 or permission of instructor.

**67.355 Speech and Voice for the Theatre (3)** For theatre majors concerned with developing effective techniques of voice and diction. Usually offered every spring.

**67.362 Lighting Design (3)** Lighting technology, electrical theory, and the design of lighting as an integral part of the performing arts. Usually offered alternate springs. *Prerequisite:* 67.260 or permission of instructor.

**67.364 Basics of Scene and Costume Design (3)** Introductory course dealing with the technical and artistic aspects of scene and costume design. Draws on the fine arts, architecture, history, critical analysis, and the student's own artistic exploration to facilitate an understanding of how these are applied to stage production. Usually offered every spring.

**67.365 Theatre History I: From the Greeks to the Renaissance (3)** The historical pattern of drama as an art

form and the social function of the theatre from its earliest appearance through the Renaissance. Meets with 67.665. Usually offered every fall.

**67.366 Theatre History II: From Baroque to the End of the Nineteenth Century / A (3)** The historical pattern of drama as an art form and the social function of the theatre from the baroque to the present. Meets with 67.666. Usually offered alternate springs. May be taken independently of 67.365.

**67.367 Theatre History III: Twentieth Century (3)** American and European drama of the twentieth century. Meets with 67.667. Usually offered alternate springs.

**67.385 History of Italian Instrumental Music (3)** An examination of the Italian contribution to instrumental music from the Middle Ages through the contemporary period, including the overtures and instrumental deviations of the Bel Canto school. Landini, Vivaldi, Scarlatti, Paganini, Bellini, Respighi and Berio are among the composers discussed. Usually offered every fall. *Prerequisite:* ability to follow a musical score.

**67.390 Independent Reading Course in Performing Arts (1-6)**

**67.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**67.398, 67.399 Honors, Junior Year (1-6), (1-6)** May be repeated for credit but not in the same term; topic must be different. Usually offered every fall and spring. Permission of department chair and honors director required.

**67.404 Advanced Ballet (3)** Advanced ballet exercises and movement sequences to increase technical skill and personal expression. Meets with 67.604. Usually offered every fall and spring. *Prerequisite:* 67.204 or permission of instructor.

**67.409 Dance Practicum (1)** Provides the student with the opportunity to continue his/her current level of dance technique course. Student may register for practicum only if he/she has completed the 3 credit dance course at the 400 level. May be repeated for credit within the same term; dance technique must be different for each credit hour. Usually offered every term. *Prerequisite:* completion of equivalent 3 credit dance technique course and permission of Director of Dance.

**67.410 Workshop in Dance Production (2-3)** Develops techniques and provides experience in various phases of dance production. Repertory and improvisation. Meets with 67.610. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every fall and spring. *Prerequisite:* permission of instructor.

**67.411 Composition of Dance I (3)** Introduction to the vocabulary and techniques of choreography. Students create their own choreographies. Meets with 67.611. May be repeated for credit but not within the same term; topic must be different. Usually offered alternate years. *Prerequisite:* permission of instructor.

**67.412 Composition of Dance II (3)** Continuation of 67.411. Meets with 67.612. May be repeated for credit but

not within the same term; topic must be different. Usually offered every spring. *Prerequisite:* 67.411 or permission of instructor.

**67.440 Stage Management (3)** Gives the student a broad overview of stage management and related production management theory, with concentration on rehearsal and performance management techniques. Usually offered alternate springs.

**67.444 Senior Capstone: Music Theatre (3)** Provides the undergraduate music theatre major with a comprehensive integrative seminar and guides the student to the realization of a correlating creative capstone project. Builds upon the foundation of theory and experience acquired throughout the undergraduate years. Usually offered every spring. *Prerequisite:* senior status; Music Theatre majors only.

**67.445 Senior Capstone: Theatre (3)** Provides the undergraduate theatre major with a comprehensive integrative seminar and guides the student to the realization of a capstone project. Builds upon the foundation of theory and experience acquired throughout the undergraduate years. Usually offered every spring.

**67.450 Rotating Topics in Theatre (1-3)** Designed for advanced undergraduate students who wish to continue theatre studies. Emphasis on approaches to performance material and preparation techniques for improvisation, advanced acting styles, children's theatre, creative dramatics, Shakespeare, stage management, music theatre, directing methodologies, and other selected topics. Meets with 67.650. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of instructor.

**67.490 Independent Study Project in Performing Arts (1-6)**

**67.491 Performing Arts: Internship (1-6)** Usually offered every term.

**67.498, 67.499 Honors, Senior Year (1-6), (1-6)** May be repeated for credit but not in the same term; topic must be different. Usually offered every fall and spring.

## Graduate and Advanced Undergraduate Courses

**67.506 The Moving Body (3)** The practical application of anatomy and kinesiology to performance work in dance, music, and theatre. Warm-up exercises, injury prevention, sports, and everyday activities are also covered. Usually offered every fall. *Prerequisite:* permission of instructor.

**67.507 Principles of Movement (3)** Principles of Movement is a system of analysis for describing and understanding the qualitative aspects of movement. Students learn to expand their movement vocabulary, both spatially and dynamically, and to develop their verbal skills in observing and describing dance. Usually offered every spring.

**67.524 Studies in Music Theory (3)** In-depth studies in areas of theoretical concern, such as fugue, advanced counterpoint, and serial techniques. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate years. *Prerequisite:* 67.325 or permission of instructor.



**67.526 Orchestration (3)** Scoring for various chamber ensembles and full orchestra. Analysis of the orchestration of composers from the classical era to the present. Usually offered alternate falls. *Prerequisite:* 67.324, which may be taken concurrently. *Note:* not open to students who have taken 67.328 Orchestration.

**67.527 Instrumental and Choral Conducting (3)** Techniques and preparation for conducting both instrumental and choral repertoire taught through preparation of a variety of scores and in-class performance of examples. Students learn patterns, cues, expressive gesture, score reading/analysis, and marking. Includes advanced work on style and musical idiom. Usually offered alternate springs. *Prerequisite:* 67.228 or equivalent experience.

**67.528 Diction for Singers (2)** Pronunciation practices in languages relevant to vocal literature: French, Italian, and German. Usually offered alternate falls.

**67.535 Studies in Music History (3)** Concentration in an area such as opera, non-Western music, or performance practices. May be repeated for credit but not in the same term; topic must be different. Offered irregularly.

**67.536 Research Methodology in Music (3)** Methods and tools of research. Class project, oral report, and paper. Transcription of vocal notations and instrumental tablatures. Survey of scholarly editions, periodicals, and reference works in the major European languages. Usually offered alternate falls. *Prerequisite:* 67.322 and 67.323, or equivalent.

**67.537 Music: Analytical Studies (3)** A study of analytical techniques applied to a representative sample of music from the medieval through contemporary periods. Usually offered alternate falls. *Prerequisite:* 67.325.

**67.543 Pedagogy I (2)** Seminar to explore concepts of vocal and instrumental performance and their application to teaching in a private studio. Usually offered alternate falls. *Prerequisite:* permission of instructor.

**67.544 Pedagogy II (2)** Survey of literature and teaching of instrumental and vocal techniques. Usually offered alternate springs.

**67.545 Chamber Ensembles (1)** Performance in particular areas of music literature by small, select groups, including Opera Workshop and Collegium Musicum. With permission of instructor may be repeated for credit; content must be different. Usually offered every term. *Prerequisite:* audition.

**67.546 Internship in Music (3)** Practical professional experience for selected students who work with a cooperating agency directly in their professional field under faculty supervision. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of department chair.

**67.552 Directing Techniques (3)** A studio course providing training in the foundations of directing for the theatre by applying various directorial theories, forms of play analysis and types of staging to particular scripts. Usually offered every fall. *Prerequisite:* 67.115, 67.251, and 67.260 or permission of instructor. *Note:* not open to students who have taken 67.352 Beginning Directing.

**67.555 Acting and Directing for the Camera (3)** Training for both actors and directors on techniques for working on film, TV and video. Actors and directors interact on various script and media formats including commercials, sitcom, drama, and industrial film work. Usually offered every spring. *Prerequisite:* permission of instructor.

**67.557 Creative Writers' Performance Laboratory (3)** An exploratory course for writers, actors, and directors for study and development of original scripted works and the process inherent in the creation of a dramatic piece. Attention is given to special acting, directing, and writing techniques needed to realize a polished performance of students' original works. Usually offered every spring. *Prerequisite:* some experience in writing, acting, or directing, or permission of instructor.

**67.570 Survey of Arts Management (3)** Study of various facets of management in the arts: contracts, logistics, organization, etc. Usually offered every fall. *Prerequisite:* permission of instructor.

**67.571 Promotion and Public Relations for Performing Arts (3)** Examines the techniques of audience development for arts institutions. Basic promotion and public relations skills. Usually offered every spring. *Prerequisite:* permission of instructor.

**67.585 Creative Theories and Criticism in Performing Arts (3)** Aesthetic and critical constructs which apply to the interrelationship between the performing arts and criticism of them. Usually offered every spring. *Prerequisite:* permission of instructor for non-majors.

**67.590 Independent Reading Course in Performing Arts (1-6)**

### Graduate Courses

**67.602 Modern Dance III (3)** Meets with 67.302. Usually offered every fall and spring. *Prerequisite:* permission of instructor.

**67.604 Advanced Ballet (3)** Advanced ballet exercises and movement sequences to increase technical skill and personal expression. Meets with 67.404. Usually offered every fall and spring. *Prerequisite:* permission of instructor.

**67.605 History and Philosophy of Dance I: Fifteenth-Nineteenth Century (3)** The evolution of Western theatrical dance, with emphasis on the fifteenth through the nineteenth centuries. Meets with 67.305. Usually offered alternate falls.

**67.606 History and Philosophy of Dance II: Twentieth Century (3)** A chronological survey of dance in the twentieth century; writings and videos of contemporary dance authorities and artists are used as source materials. Usually offered alternate falls. Meets with 67.306. *Prerequisite:* 67.605.

**67.609 Dance Practicum (1)** Provides the student with the opportunity to continue his/her current level of dance technique course. Student may register for practicum only if he/she has completed the 3 credit dance course at the 600 level. May be repeated for credit within the same term; dance technique must be different for each credit hour. Usually offered every term. *Prerequisite:* completion of

equivalent 3 credit dance technique course and permission of Director of Dance.

**67.610 Workshop in Dance Production (2-3)** Develops techniques and provides experience in various phases of dance production, repertory and improvisation. Meets with 67.410. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every fall and spring. *Prerequisite:* permission of instructor.

**67.611 Composition of Dance I (3)** Introduction to the vocabulary and techniques of choreography. Students create their own choreographies. Meets with 67.411. May be repeated for credit but not within the same term; topic must be different. Usually offered alternate years. *Prerequisite:* permission of instructor.

**67.612 Composition of Dance II (3)** Continuation of 67.611. Meets with 67.412. May be repeated for credit but not within the same term; topic must be different. Usually offered every spring. *Prerequisite:* permission of instructor.

**67.650 Rotating Topics in Theatre (1-3)** Designed for advanced graduate students who wish to continue theatre studies. Emphasis on approaches to performance material and preparation techniques in improvisation, advanced acting styles, children's theatre, Shakespeare, stage management, music theatre, directing methodologies, and other selected topics. Meets with 67.450. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of instructor.

**67.665 Theatre History I: From the Greeks to the Renaissance (3)** The historical pattern of drama as an art form and the social function of the theatre from its earliest appearance through the Renaissance. Meets with 67.365. Usually offered every fall.

**67.666 Theatre History II: From Baroque to the End of the Nineteenth Century (3)** The historical pattern of drama as an art form and the social function of the theatre from the baroque to the present. May be taken independently of 67.665. Meets with 67.366. Usually offered alternate springs.

**67.667 Theatre History III: Twentieth Century (3)** American and European drama of the twentieth century. Meets with 67.367. Usually offered alternate springs.

**67.672 Rotating Topics in Arts Management (3)** An exploration of major areas of arts management: grants and fund raising; box office, income, and general administration; and arts in education. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 67.570 or permission of instructor.

**67.673 Fund-Raising Management for the Arts (3)** Examines the factors most conducive to the financial health of institutions and ways of obtaining and maintaining funding. Usually offered every fall. *Prerequisite:* 67.570 or permission of instructor.

**67.690 Independent Study Project in Performing Arts (1-6)**

**67.691 Performing Arts: Internship (1-6)** Usually offered every fall and spring.

**67.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**67.749 Research Performance: Lecture Recital (3-6)** Research topics for M.A. candidates in music performance who choose to present a lecture-recital instead of a thesis. Work includes intensive instrumental or vocal research in lecture topic area. May not be taken before the M.A. recital requirement has been completed. Must be under the supervision of a full-time faculty adviser. Usually offered every term. *Prerequisite:* permission of department chair.

**67.797 Master's Thesis Seminar (1-6)** Usually offered every term.

**67.798 Nonthesis Option Seminar (3-6)** Usually offered every term.

## Applied Music

### Undergraduate Courses

**68.100 Class Instrumental Study (1)** Beginning study in an announced area (piano, guitar, recorder, various orchestral brass, woodwind, string, and percussion instruments). Prepares the beginning student for private study. May be repeated for credit on another instrument or in the case of piano or guitar for a second semester at a more advanced level. Usually offered every term.

**68.101 Class Vocal Study (1)** Basic principles of singing. Prepares the beginning student for private study, for more effective choral singing, etc. May be repeated for a second semester at a more advanced level. Usually offered every term.

**68.121 Private Instrumental or Vocal Study (1)** May be repeated for credit with permission of instructor; different repertoire is assumed. Usually offered every term. *Prerequisite:* 68.100 for piano, 68.101 for voice, or permission of instructor.

**68.122 Private Instrumental or Vocal Study (2)** With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term.

**68.334 Private Instrumental or Vocal Study (4)** Junior performance honors. Full recital required. Usually offered every term. *Prerequisite:* audition and permission of department chair.

**68.434 Private Instrumental or Vocal Study (4)** Senior performance honors. Full recital required. Usually offered every term. *Prerequisite:* audition and permission of department chair.

**68.444 Music Composition (3)** Class or individually supervised practice in writing short compositions in specified small forms. Assignments adapted to individual needs and talents of students. May be repeated once for credit. Usually offered every term. *Prerequisite:* 67.321 or permission of instructor.

### Graduate and Advanced Undergraduate Courses

**68.531 Private Instrumental or Vocal Study (1)** Directed at the nonperformance major. With permission of instructor may be repeated for credit, but not in the same term;

different repertoire is assumed. Usually offered every term. *Prerequisite*: completion of second year of undergraduate applied music major requirements and audition.

**66.532 Private Instrumental or Vocal Study (2)** Directed at the nonperformance major. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite*: completion of second year of undergraduate applied music major requirements and audition.

**66.534 Studio Accompanying (2)** Provides piano students with practical studio experience with singers and instrumentalists; includes two supervised hours (lessons) and four preparation hours per week. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite*: audition consisting of sight-reading and two songs handed out a week in advance.

## Graduate Courses

**68.791 Private Instrumental or Vocal Study (1)** May be repeated for up to six credit hours by a master's degree candidate in performance. Others limited to four credit hours. Usually offered every term. *Prerequisite*: written permission of department.

**68.792 Private Instrumental or Vocal Study (2)** May be repeated for up to six credit hours by a master's degree candidate in performance. Others limited to four credit hours. Usually offered every term. *Prerequisite*: written permission of the department.

## Justice, Law and Society

### Undergraduate Courses

**73.100 Justice in America /S 4:1 (3)** The operations of formal systems of social control and justice in contemporary America; the conditions, values, and processes that have defined them; and the limits of their authority over the individual. Emphasis on the evolution of the criminal, civil, juvenile, and administrative justice systems. Usually offered every term.

**73.103 Critical Issues in Justice /S (3)** Political, legal, economic, and social problems of justice emphasizing crime, deviance, and other conduct resulting in such socially disapproved labels as mentally ill, delinquent, and criminal. Moral and theoretical issues involved and mechanisms for remedying injustice and controlling socially disapproved behavior. Usually offered every term.

**73.104 Introduction to Systems of Justice /S (3)** An overview of the formal mechanisms of social control as manifested by the components of the criminal justice system (legislatures, planning agencies, law enforcement, courts, and corrections), civil justice systems, and such other mechanisms as civil commitment. Alternatives to formal processing including diversion, pretrial screening and dispute-settlement programs. Usually offered every term.

**73.110 Western Legal Tradition /S 2:1 (3)** From the biblical era to the American experiment, the Western legal tradition encompasses primitive, divine, natural, canon, secular, and common law. This course examines the key

legal documents and issues of the tradition including the Code of Hammurabi, the Ten Commandments, the trials of Socrates and Jesus, the Magna Carta, the Rule of Law, and Common law. Usually offered every term.

**73.200 Deprivation of Liberty /S 4:2 (3)** Analysis of the values, costs, and logic of the manners in which classes of people (e.g., criminals, drug abusers, the mentally ill) are defined as dangerous; analysis of the specific means of limiting their ability to harm others, the public order, or themselves. Emphasis on imprisonment, institutionalization, probation, capital punishment, and enforced treatment. Usually offered every term. *Prerequisite for General Education credit*: 73.100 or 54.105.

**73.205 History and Philosophy of Criminology /A, S (3)** Development of theories of criminology and criminal justice over the course of history with special attention to the period from 1700 to the present. Review and evaluation of contemporary knowledge and theories of crime. Usually offered every term.

**73.206 Justice and Deviant Behavior (3)** Consideration of conformity and deviance in the light of broader issues of social justice (poverty, racism, sexism, alienation, etc.), of interactions between persons and groups that engage in and sanction deviance, of the role of ideology in the definition of deviance, and of the social policy consequences of deviance definition. Usually offered every fall.

**73.210 Policing in America: An Introductory Survey /S (3)** A survey of the history, development, environment, organization, and sociology of American law enforcement, with emphasis on state and local police agencies. Police as an agency of social control; police as a service agency; police as a part of government and of the justice system. Usually offered every fall.

**73.211 Contemporary Issues in American Law Enforcement (3)** Policy formulation; operational procedures; patrol; performance measurement; women and minorities in policing; labor-management relations; corruption; political accountability; use of force; citizen complaints. Usually offered every spring. *Prerequisite*: 73.210.

**73.215 Violence and Institutions /S 4:2 (3)** The capacity for violence by agents of an institution acting in service of organizational goals. Through evaluation of case studies, students gain an understanding of the dynamics of institutional violence and its threat to human life. Topics include: hazardous workplaces, unethical experimentation, dangerous products, torture and terrorism, police and prison use of deadly force, and the death penalty. Usually offered every spring. *Prerequisite for General Education credit*: 73.100 or 57.105.

**73.220 Cities and Crime /A 2:2 (3)** Have crime and the urban environment always been linked? This course examines their relationship from biblical times to the present. Topics include: the criminal underworld in the eighteenth century; the emergence of juvenile delinquency following the industrial revolution; the literary imagination and mid-nineteenth century urban crime; and crime in developing countries. Usually offered every term. *Prerequisite for General Education credit*: 23.115 or 29.115 or 73.110. *Note*: not open for credit to students who have taken 00.300 Cities and Crime.

**73.225 American Legal Culture /S 2:2 (3)** The law has become one of the most important regulators in American culture. How did this happen? This course explores the transformation of American legal culture from the colonial era to the present, considering such issues as the challenges of crime, the Cold War and civil rights, the rise of the surveillance state, and images of law in popular culture. Usually offered every term. *Prerequisite for General Education credit:* 73.110 or 53.105 or 60.105.

**73.230 Corrections in America (3)** Survey of current correctional thought and practices in the United States and their evolution. Overview of correctional treatment in different kinds of institutions and in the community. Usually offered every fall.

**73.253 Juvenile Delinquency: Causes, Prevention and Treatment (3)** Development of the individual through childhood and adolescence as it relates to delinquency and crime; special characteristics of juvenile criminality; current principles, policies, and practices for its prevention and control. Factors producing delinquency. Juvenile detention, juvenile court, training schools, and treatment of the offender. Usually offered every spring.

**73.301 Drugs, Consciousness and Human Fulfillment (3)** Positive approaches to achieving alternative states of consciousness with and without drugs; the nonaddictive use of addicting drugs; a balanced assessment of the latest findings on the dangers and benefits of the most widely used nonopiate recreational drugs, such as marijuana, tobacco, caffeine, alcohol, quaaludes, and cocaine; choices for individuals and society regarding the use and control of the substances. Usually offered every spring.

**73.303 Drugs, Alcohol, and Society (3)** Fundamental issues regarding alcohol and drug use and abuse; addiction; treatment and prevention; the history of alcohol, opiates, and other drugs in the United States and other countries, particularly Great Britain; the formulation of public policies and laws; impact and costs for society. Usually offered every fall. *Note:* not open to students who have taken 73.300 Drugs and Society or 73.302 Alcoholism and Society.

**73.307 Justice, Law and the Constitution /A, S (3)** The historical development, theory, principles, and content of criminal and civil law and their interrelationships; exploration of due process, rule of law, and the role of the Constitution in protecting rights and limiting the actions of both civil and criminal justice agencies. Usually offered every term.

**73.308 Justice, Morality, and the Law /A, S (3)** Moral issues involved in administering justice in society, emphasizing the nature of human rights and the ideal of justice. Moral consequences of official control actions of lawmakers, justice system careerists, and others involved in the definition of crime and deprivation of liberty, stressing "moral offenses." Offered irregularly. *Prerequisite:* 60.105.

**73.309 Justice and Public Policy (3)** Examines current basic national, state, and local policy issues that affect the definition of crime and shape public agency responses toward crime. The objective of the course is to sharpen and improve the student's policy-oriented thinking about crime in a constitutional democracy and to develop a method to

evaluate policy related to crime. Usually offered every term. *Note:* not open to students who have taken 73.522 Crime and Public Policy.

**73.310 The Legal Profession (3)** Analysis of the structure of the legal profession from U.S. and cross-cultural perspectives. Topics include the structure and organization of the bar, the social hierarchy of the profession, ethical and moral issues faced by lawyers, the changing status of women and minorities in the profession, and access to legal services for the poor. Usually offered alternate falls.

**73.311 Introduction to Forensic Science (3)** Scientific analysis and identification of evidence and documents, special police techniques, interpretation of medical reports, and preparation of reports. Usually offered every fall.

**73.313 Organized Crime (3)** Organized crime in the United States; its effect on society and the need for integrated response by people, government, and business. Organized crime as a social subculture. Socioeconomic and political aspects of organized crime emphasizing internal controls and external relations with various political and economic sectors. Usually offered every term.

**73.315 White-Collar and Commercial Crime (3)** Economic and fiscal implications and enforcement problems. Fraudulent association, bankruptcy fraud, monopoly and coercive competitive practices, and illegal use of securities and credit cards. Problems of theoretical criminology presented by white-collar crime. Usually offered every spring.

**73.332 Corrections and the Constitution (3)** Examination of the evolving relationship between correctional agencies and the U.S. Constitution. Landmark court decisions are reviewed within the framework of competing demands for fairness and crime control. Contemporary correctional issues and emerging innovations are presented and discussed in the context of cost, effectiveness, and constitutional guarantees and protections. Usually offered every fall.

**73.333 Law, Psychology, and Justice (3)** Examines psycholegal research related to evidentiary issues in the criminal and civil justice process. Areas covered include accuracy of childhood testimony, eyewitness identification, judicial use of social science research, impact of nonadversarial versus adversarial expert testimony. Usually offered every spring.

**73.342 Judicial Administration (3)** Major issues in criminal and civil justice systems, including detention, plea bargaining, pre-trial motions, collateral attack. Roles of prosecutor and defense counsel. Discovery and other instruments for narrowing issues and expediting litigation. Alternative methods of resolution, judicial management problems, fact-finding, and the jury system. Usually offered every fall. *Note:* not open to students who have taken 73.340 Judicial Administration: Criminal or 73.341 Judicial Administration: Civil.

**73.343 Issues in Civil Justice (3)** This course examines the institutional arrangements that constitute our system of civil justice. It describes the various decisions that are made to transform a grievance between citizens into a matter that comes before civil courts as well as those procedures followed by the courts to resolve a matter. Usually offered every spring.

**73.352 Psychiatry and the Law /S (3)** Basic psychiatric principles including contemporary views of causes, manifestations, patterns, and treatments of psychiatric and behavioral disorders; trends in the use of psychiatric resources to deal with deviant behavior within and without the criminal justice system. Topics include: incompetence as bar to trial, insanity as defense, civil commitment, drug addiction, alcoholism, psychiatry in processing and treating juvenile offenders, and rehabilitative efforts of the corrections system. Usually offered every fall.

**73.380 Introduction to Justice Research (3)** Social research methods as applied to justice research. The function and role of justice research and the nature and form of research designs, methods, and tools. Usually offered every term. *Prerequisite:* 42.202 and junior standing.

**73.382 Determination of Fact (3)** An introduction to fact finding. Considers how necessary factual bases for administrative, managerial, legislative, and adjudicative decisions are established; discusses ethical strategies for using physical evidence, people, records, and files in proof; compares investigation, auditing, and scientific method; and uses examples from criminal, civil, juvenile, and military justice system design and operation problems. Usually offered every spring.

**73.390 Independent Reading Course in Justice (1-6)**

**73.392 Cooperative Education Field Experience (3-9)** See description under Cooperative Education in this publication.

**73.401 Criminal Behavior: A Psychosocial Analysis (3)** Examines various clinical and theoretical explanations for different types of criminal behavior including an analysis of the violent offender, the psychopathic offender, and the white-collar offender. Readings and other case-study material of actual criminal offenders are examined in order to develop an understanding of the causes and treatment. Usually offered every spring. *Note:* not open to students who have taken 73.503 Criminal Behavior: A Psychosocial Analysis.

**73.402 Comparative Systems of Law and Justice (3)** A cross-cultural analysis of the role of law. Exploration of the administration of law and justice in various societies, from least developed to most developed. Special emphasis on comparative analysis of criminal justice systems, including policing, courts, and correctional systems. Usually offered every term.

**73.403 Concepts of Punishment (3)** The philosophical issues associated with criminal punishment, particularly the moral justification for punishment. The relationship between theories of punishment and theories of the state, theories of ethics, and broader philosophical issues such as free will versus determinism. Usually offered alternate springs.

**73.404 Gender and the Law (3)** Gender and criminal, civil, and regulatory law. Criminal issues include sexual assault, prostitution, and the criminalization of pornography and sexual trafficking in women, and gender relations in the criminal justice system. Civil issues include marital and divorce laws and laws regarding reproduction. Other issues include sexual harassment and discrimination in

housing, credit, insurance, employment, and education. Usually offered every fall.

**73.412 Law and the Corporate World (3)** An examination of the role of corporations in national and international economies and the legal constraints associated with this mode of business. Legal principles of corporate formation, financing, management and control. Analysis of the duty of care and the business judgement rule, along with the anti-fraud provisions of the federal securities laws. Usually offered every fall.

**73.420 Legal Reasoning (3)** Students absorb scholars' and judges' descriptions of analysis and decision in law; practice legal reasoning themselves through analysis of appellate decisions, statutes, and the U.S. Constitution; study procedural and organizational components of the American legal system; and choose an area in which to concentrate and synthesize their learning by developing reasoned arguments. Offered irregularly.

**73.431 The Prison Community (3)** Social organization in correctional institutions. Inquiry into the nature, organization, and aims of the penal system and its effect on groups it deals with. Interaction of groups within institutions. Usually offered every spring.

**73.454 Violence in America (3)** Emphasis on various ideologies and events that cause or reduce violence, such as social movements, depressions, war, and political repression. Offered irregularly.

**73.458 The Juvenile and the Law (3)** Special legal status of the juvenile. Protective services, incompetence to enter contracts, compulsory education, child labor laws, and *in loco parentis* actions by state and private institutions. Juvenile and family court movement, emphasizing non-criminal aspects of administering juvenile justice: guardianship, dependency, neglect, child support, paternity, and adoption. Usually offered every fall.

**73.463 The Free Press and the Administration of Justice (3)** The constitutional guarantee of freedom of the press as it pertains to problems in administration of justice. Free press and law enforcement, fair trial, and correctional processes. Problems of administrative secrecy, national security, and right to privacy. Usually offered every spring.

**73.480 Independent Study Project in Justice (1-6)**

**73.491 Internship in a Justice Setting (1-6)** Provides students with actual experience in the administration of justice through assignment to enforcement, judicial, or correctional agencies under joint supervision of agency officials and university instructors. Usually offered every term.

**73.492 Washington Justice Seminar I: A National and Intergovernmental Perspective (4)** Classroom section of a double seminar. Each session covers a specific area in terms of theory and operational principles and explores the roles of all three branches of government in creating and operating justice systems in federations. Limited to Washington Justice Semester students. Usually offered every fall and spring.

**73.493 Washington Justice Seminar II: A National and Intergovernmental Perspective (4)** Laboratory section of

a double seminar. Field visits with discussions led by agency personnel regarding the intergovernmental roles of their agencies and their place in justice systems. Theory and operational principles covered in 73.492. Limited to Washington Justice Semester students. Usually offered every fall and spring.

### Graduate and Advanced Undergraduate Courses

**73.501 The Concept of Justice (3)** Major philosophical contributions to the definition of justice. The relationship of the ideal of justice to concrete situations in which issues of justice (civil, criminal, or political) arise. Offered irregularly.

**73.502 The Concept of Law (3)** Major philosophical approaches to problems of meaning, function, and necessity of law in society. The concept of law is examined in its relationship to values, custom, power, social change, and social theory. Offered irregularly.

**73.504 Comparative Criminology and Criminal Justice (3)** A comparative study of criminology and criminal justice systems as developed in the United States and elsewhere. Usually offered alternate springs.

**73.513 Law and Economics (3)** Examination of the uses and limits of economic reasoning in addressing problems in criminal and civil law. Issues include the effects of assigning liability, the relationship between equity and efficiency and how law creates incentives for certain types of behavior. Nuisance law, breach of contract and product liability are also discussed. Usually offered alternate springs. *Note:* not open to students who have taken 73.413 Law and Economics.

**73.517 Victimology (3)** Victims as an integral part of crime. Theories and research results on the victim role, criminal-victim relationships, concepts of responsibility, and society's reaction to victimization. Sexual assault, child abuse, and victimization of the elderly. Crisis-intervention centers, court-related victim/witness services, restitution, and compensation. Offered irregularly.

**73.541 Law and Authoritarian Societies (3)** The theory and practice of the police state in comparative perspective. Authoritarian and antidemocratic aspects of police and other criminal justice agencies. Other agencies of social control in both democratic and nondemocratic settings. Democratic controls and human rights. Offered alternate falls.

**73.550 Drugs, Crime, and Public Policy (3)** Review of the history of drug abuse in America; the relationship between drug abuse and crime, including marijuana, heroin, and alcohol; national strategies to deal with drug abuse; improvement of policies in the future. Usually offered every fall.

**73.551 Comparative Justice Studies Abroad (3-6)** On-site review of theories and practices of crime and criminal justice systems of other countries, including crime, justice, and heroin in England; juvenile justice in England and America; comparative corrections; and administration of justice in England, Sweden, Denmark, and the Netherlands. Usually offered every summer.

**73.590 Independent Reading Course in Justice (1-6)**

### Graduate Courses

**73.604 Theoretical Issues in Justice (3)** Consideration of the nature and sources of injustice, crime, and deviance; the variety of social control mechanisms including the legal system; the role of ideology; and the problems of legitimacy, authority, and responsibility of justice-system design and operation. Usually offered every spring.

**73.608 The Constitution and Criminal Procedure (3)** Constitutional standards and operation of the criminal justice system. Police practices, bail, decision to prosecute, scope of prosecution, grand jury proceedings, preliminary hearings, right to counsel, right to speedy trial, plea bargaining, discovery and disclosure, jury trial, trial by newspaper, double jeopardy, and post-trial proceedings. Offered irregularly.

**73.610 Survey in Justice and Public Policy (3)** The American justice systems and the theories underlying them. Focus is on the criminal justice process and issues related to each step and institution in it. Topics include varieties of law and justice, issues dealing with the police, courts, and corrections. Usually offered every fall.

**73.611 Survey in Law and Society (3)** An examination of classical and contemporary theories on the relationship of law and society. Also, an analysis of national and international perspectives. Contemporary social science research on pertinent issues such as access to justice, the legal profession, and the judicial process, are examined. Recent developments include feminist legal criticism and critical legal studies. Usually offered every spring.

**73.613 Law and Anthropology (3)** Law and legal systems in different cultures and societies, including various constructions of law and modes of norm enforcement. Analysis of law and custom in selecting traditional societies as seen by anthropologists, legal scholars, and social scientists. Perceptions of property, inheritance, contracts, torts, and criminal law. Usually offered alternate springs.

**73.614 Law and the Behavioral Sciences (3)** Historical and contemporary literature in law and the social sciences. Critical assessment of major research endeavors conducted by lawyers and social scientists, including such topics as plea bargaining, conflict resolution, the jury system, the legal profession, law and the mass media, and the function of law and public opinion in different societies. Offered irregularly.

**73.615 Law and Human Rights (3)** Examination of social structures and agencies protecting human rights: international law, the United Nations, and organs for enforcement of human rights laws, including the U.N. Commission on Human Rights, the World Court, and the European and Inter-American Commissions and Courts. Case studies of rights violations and attempts to apply international law. Usually offered alternate falls.

**73.643 Advanced Seminar in Policing (3)** This course is an examination of major U.S. police and law enforcement systems and issues. Emphasis is placed on police organization, federalism and its effects on policing, police effectiveness, police discretion and use of force, police and crime, personnel, and accountability. May be repeated for credit within the same term, topic must be different. Offered irregularly.

**73.644 Law and Social Control (3)** The role of law, including the use of legal institutions, processes, regulations and sanctions, in the service of social change and control in a democratic society. The various avenues, both civil and criminal, available to and utilized by governmental authority to enforce social conformity or designate and regulate deviance. Usually offered alternate springs.

**73.663 Advanced Seminar in Courts (3)** Seminar on selected topics such as: Jurisprudence; sources of law; mental health and the law; law, science, and the courts; philosophy of law; intergovernmental relations; alternatives (civil and criminal); Sentencing: policy options, societal trends, technological implications. Management: strategic planning, management and evaluation, trial court performance standards, personnel issues, case flow strategies. Conflict resolution: comparative negotiation; arbitration and mediation systems; labor/management conflict resolution. May be repeated for credit within the same term, topic must be different. Offered irregularly.

**73.680 Introduction to Justice Research I (3)** The logic of scientific inquiry and the nature and process of social research as applied to justice. Theory, concepts, practices, and the demonstration of their reliability and validity. Attention is also given to methods of sampling design and techniques of data collection. Usually offered every fall.

**73.681 Introduction to Justice Research II (3)** Methods of data analysis applicable to research in the justice field. Building on the concepts presented in 73.680, the course examines the link between research design and empirical analysis, the role of probability in hypothesis testing, and the concept and techniques of descriptive and inferential statistics. Usually offered every spring. *Prerequisite:* 73.680.

**73.686 Advanced Seminar in Corrections (3)** Examination of the origin, nature, and operation of various correctional institutions and practices. The focus of the course varies by semester; topics include institutional corrections, community corrections, intermediate sanctions, legal aspects of corrections, the death penalty, and philosophical theories of punishment. May be repeated for credit within the same term; topic must be different. Offered irregularly.

**73.687 Law, Deviance, and the Mental Health System (3)** Examines the interprofessional relationship between law and the mental health systems, including areas of conflict and close working relationships. Areas covered include standards for involuntary hospitalization, the role of the insanity defense, psychiatric liability, and the rights of the mentally ill, including the right to treatment and the right to require treatment. Offered irregularly. *Note:* not open to students who have taken 73.521 Law and the Mental Health System.

**73.690 Independent Study Project in Justice (1-6)**

**73.691 Internship in a Justice Setting (1-6)** Provides students with experience in administering justice in operational or research settings through assignment to legislative, regulatory, planning, police, judicial, or correctional agencies under joint agency/school supervision that includes faculty evaluation of ongoing written reports. Usually offered every term.

**73.692 Cooperative Education Field Experience (3-6)** See description under Cooperative Education in this publication.

**73.710 Seminar in Justice, Law and Society (3)** Analysis and critique of major theoretical approaches to the study of justice and the law. The interactions among the justice system, law, and society are investigated, including the conceptual underpinnings of the discipline, as well as an in-depth treatment of the field's empirical research. Usually offered every fall. *Prerequisite:* Admission to Ph.D. program or permission of the instructor.

## English Language Institute

**Note:** The following courses (below the 200 level) do not carry academic credit towards graduation.

**74.010 English Grammar I (0)** A beginning course in English grammar intended for students with little or no prior exposure to English. Emphasis is on basic English sentence patterns. Offered irregularly. **No academic credit is received for this course.** *Prerequisite:* admission by ELI placement test.

**74.012 Reading Skills I (0)** A beginning course intended to develop the student's basic reading skills. Emphasis is on increasing the student's recognition vocabulary and the ability to understand basic and low-intermediate sentence patterns. Usually offered irregularly. **No academic credit is received for this course.** *Prerequisite:* admission by ELI placement test.

**74.014 Writing Skills I (0)** A beginning course intended to develop basic writing skills, including printing and handwriting when necessary, through tightly controlled exercises affording the student the opportunity to employ sentence patterns and vocabulary typically studied at beginning and high-beginning levels. Usually offered irregularly. **No academic credit is received for this course.** *Prerequisite:* admission by ELI placement test.

**74.018 Listening and Speaking Skills I (0)** A beginning course designed to help the student develop the ability to communicate effectively when required to express basic everyday wants and needs. Emphasis is on helping the student to understand English spoken at less than normal speed and to attain a minimally acceptable level of phonetic accuracy when speaking. Offered irregularly. **No academic credit is received for this course.** *Prerequisite:* admission by ELI placement test.

**74.020 English Grammar II (0)** A low intermediate course in English grammar intended for students with a basic command of English. Emphasis is on variations of basic sentence patterns. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.010.

**74.022 Reading Skills II (0)** A low intermediate course in basic reading skills in English as a second language; intended for students with a basic command of English. Emphasis is on understanding written English and on vocabulary development. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.012.

**74.024 Writing Skills II (O)** A low intermediate course in English as a second language. Emphasis is on developing basic mechanics and conventions of written English through controlled writing exercises and activities. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.014.

**74.026 Listening and Speaking Skills II (O)** A low intermediate course in English as a second language. Emphasis is on improving pronunciation, conversation ability and listening comprehension skills. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.016.

**74.030 English Grammar III (O)** An intermediate course in English as a second language. Emphasis is on mastering verb tenses and structures of modification. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.020.

**74.032 Reading Skills III (O)** An intermediate course in English as a second language. Emphasis is on comprehension of main ideas and supporting details, organization of texts, and vocabulary expansion. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.022.

**74.034 Writing Skills III (O)** An intermediate course in English as a second language. Emphasis is on moving from controlled writing to accurate free writing of expanded sentence patterns. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.024.

**74.036 Listening and Speaking Skills III (O)** An intermediate course in English as a second language. Emphasis is on improving conversational listening and speaking skills. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.026.

**74.037 Study Skills I (O)** An intermediate-level course providing instructions and practice in a variety of essential language and study skills. Topics, which vary by section, include spelling, pronunciation, increasing reading speed, and orientation to American academic culture. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELL.

**74.038 Integrated Skills I (O)** An intermediate-level course that provides students with an opportunity to develop their English proficiency by practicing their skills in the study of a particular content area. Topics, which vary by section, are related to current events, American culture, and comparative culture. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELL.

**74.040 English Grammar IV (O)** A high intermediate course in English as a second language. Emphasis is on the complex grammatical structures characteristic of aca-

ademic language. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.030.

**74.042 Reading Skills IV (O)** A high intermediate course in English as a second language. Emphasis is on increasing reading speed and comprehension and on word study. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.032.

**74.044 Writing Skills IV (O)** A high intermediate course in English as a second language. Emphasis is on mastery of paragraph development and proofreading. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.034.

**74.046 Listening and Speaking Skills IV (O)** A high intermediate course in English as a second language. Emphasis is on comprehension of academic discourse and extended oral production. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.036.

**74.047 Study Skills II (O)** A high intermediate course that provides instruction and practice in a variety of essential language and study skills. Topics, which vary by section and semester, include methods of increasing reading efficiency, library orientation, idioms, differing student-professor behavioral expectations, and strategies for vocabulary development. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELL.

**74.048 Integrated Skills II (O)** A high intermediate course that provides students with an opportunity to develop their English proficiency by practicing their skills in the study of a particular content area. Topics, which vary by section, are related to current events, American culture, and comparative culture. May be repeated within the same term; topic may be the same. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELL.

**74.049 English for Specific Majors (O)** Preparation for the reading and discussion skills critical for success in specific majors. Topics, which vary by section and semester, include vocabulary and basic concepts in computer science, business and economics, and international legal studies. May be repeated within the same term; topic may be the same. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or recommendation of ELL.

**74.050 Reading and Text Analysis (O)** An advanced course in English as a second language. Emphasis is on analytical reading and improving academic study skills. Usually offered every term. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or successful completion of 74.042.

**74.051 Composition Skills and Grammar Review (O)** An advanced course in English as a second language. Emphasis is on essay writing and error analysis. Usually offered every term. **No academic credit is received for this**



**course.** *Prerequisite:* admission by placement test or successful completion of 74.040 and 74.044.

**74.080 English Workshop (0)** Review course emphasizing fundamentals of grammar necessary for the improvement of writing skills. Does not fulfill the university English requirement. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by ELI recommendation only.

#### Graduate Courses

**74.098 Graduate Writing Seminar (0)** Restricted to graduate international students. Emphasis on library and research techniques and on writing a research paper. Usually offered every fall and spring. **No academic credit is received for this course.** *Prerequisite:* admission by placement test or departmental recommendation.

#### University College Writing Requirement

**Note:** The following courses carry academic credit towards graduation as indicated.

**74.200 College Reading and Writing I (3)** An advanced course in reading and composition for international students whose competence in English qualifies them to take academic courses without special English. Emphasis is on academic reading and writing tasks, with attention to the residual language problems of nonnative speakers. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.050 and 74.051 or 74.080. **Note:** Completion of 74.200 and 74.201 with grades of C or better fulfills the university College Writing and English Competency Requirement.

**74.201 College Reading and Writing II (3)** A continuation of 74.200; emphasis on library and research techniques, including the writing of a research paper. Usually offered every term. *Prerequisite:* 74.200. **Note:** Completion of 74.200 and 74.201 with grades of C or better fulfills the university College Writing and English Competency Requirement.

**74.280 College Writing Skills Workshop (3)** For advanced students of English as a second language. Emphasis is on writing summaries and syntheses of materials drawn from a wide range of subject areas. Usually offered every term. *Prerequisite:* permission of instructor.

**74.290 Independent Reading (1-3)**

## Interdisciplinary Studies

#### Undergraduate Courses

**75.490 Independent Study Project in Interdisciplinary Studies (1-6)**

**75.491 Internship (1-6)** May be repeated for credit in the same term; topic may be the same.

#### Graduate and Advanced Undergraduate Courses

**75.590 Independent Reading Course in Interdisciplinary Studies (1-6)**

#### Graduate Courses

**75.690 Independent Study Project in Interdisciplinary Studies (1-6)**

**75.691 Internship (1-6)** May be repeated for credit in the same term; topic may be the same.

## Women's Studies

#### Undergraduate Courses

**76.150 Women's Voices through Time /A 2:1 (3)** The distinctive contributions of women to Western artistic and intellectual traditions. Significant articulations of human experience expressed by women through literature, art, and history; how such traditions became established and how women, despite obstacles, have produced lasting works of ideas and imagination. Usually offered every spring. **Note:** not open to students who have taken 07.307/607 Women in Art.

**76.250 The Social Reality of Women /S 4:2 (3)** Women as an under-represented category in the understanding of social institutions and behavior. An interdisciplinary approach offers diverse theories concerning the female gender. Emphasis on psychological development and on the impact of the family, government, law, and the workplace on the position of women in past and contemporary American life. Usually offered every term. *Prerequisite for General Education credit:* 03.150 or 57.105. **Note:** not open to students who have taken 76.250 Perspectives on Women.

**76.350 Interpreting Women in Culture (3)** An exploration of diverse aspects of women's cultural situation from different disciplinary perspectives. Rotating topics focus on specific subjects, integrating recent scholarship and interdisciplinary contexts. Representative topics: Sisters and Brothers/Husbands and Wives, Women and the Performing Arts, Women and Men in American Culture. May be repeated for credit, but not in the same term; topic must be different. Usually offered every spring.

**76.392 Cooperative Education Field Experience (3)** See description under Cooperative Education in this publication. Either 76.392 or 76.491 fulfill a requirement for the Women's Studies minor (students must have already declared a minor in Women's Studies to be eligible). Please consult with the Women's Studies Program Director. May be repeated for credit within the same term; topic may be the same. Usually offered every term. *Prerequisite:* 76.250 and placement by Cooperative Education Program.

**76.491 Internship in Women's Studies (1-6)** Either 76.392 or 76.491 fulfill a requirement for the Women's Studies minor (students must have already declared a minor in Women's Studies to be eligible). Please consult with the Women's Studies Program Director. Usually offered every term. *Prerequisite:* 76.250.

## Study Abroad

**Note:** For more information consult the World Capitals Program Office at 202-895-4900.

**92.300 Copenhagen Semester (1-3)** In cooperation with the Denmark's International Study Program at the University of Copenhagen, students may take courses in liberal arts or international business. These courses, taught by European professors, are supplemented by extensive field trips. Usually offered every term.

**93.495 Beijing Semester (1-6)** Students have the opportunity to take specific courses at the University of International Business and Economics in Beijing, China. All participants must take intensive Chinese language (Mandarin). Courses in Chinese Economic Cooperation, History and Culture, and an independent study project supervised by the resident professor are offered. Usually offered every fall.

**95.300 Semester in Paris (3-6)** The American University Program in Paris, in cooperation with the Via Paris Program, offers courses in French language and liberal arts. Students are placed in various Parisian universities based on their language skills and areas of study. May be repeated for credit but not within the same term; topic may be the same. Usually offered every term. *Prerequisite:* Junior standing with at least a 3.0 grade point average; two years of college French or equivalent.

**95.390 Study Abroad: Independent Reading (3-6)** An opportunity to do an independent reading course under faculty supervision while attending a study abroad program. Usually offered every term. *Prerequisite:* Authorization of instructor and dean or department chair required.

**95.391 Study Abroad: Internship (1-6)** Students may enroll in the two-day-per-week internship for direct involvement in international organizations. Abroad place-

ments include banks, multinational corporations, research institutes, media, and educational organizations. Placements are uniquely matched to complement the student's curriculum, major or minor program objectives, or serve as an elective. Usually offered every term.

**95.490 Study Abroad: Independent Study (3-6)** Usually offered every term.

**95.690 Study Abroad Independent Study (1-6)** May be repeated for credit within the same term; content/topic must be different. Usually offered every term. *Prerequisite:* authorization of the World Capitals Program director and the student's academic adviser.

**95.691 Study Abroad: Internship (1-6)** Offers direct involvement in international organizations. Placements include: multinational corporations, political or research institutions, media, and educational organizations. Placements are uniquely matched to complement the student's graduate curriculum. Students engage in activities such as observing the organizational structure, researching projects assigned to them, and gaining hands-on experience in terms of dealing with the professional world. Usually offered every term. *Prerequisite:* authorization of the World Capitals Program director and the student's academic adviser.



Scholar/Teacher of  
1994 Professor Roberta  
Rubenstein,  
Department of  
Literature, and Interim  
President Elliott  
Milstein.

# 1993-1994 Full-Time Faculty

The faculty list below covers the 1993-1994 academic year only.

The date in parentheses following each name is the year in which that faculty member was appointed to the full-time faculty.

- Aaronson, David E.** (1977). B.A., M.A., Ph.D., The George Washington University; LL.B., Harvard University; LL.M., Georgetown University; Professor of Law.
- Abdulkhaleq, Abdulla** (1993). M.A., The American University; Ph.D., Georgetown University; Visiting Fulbright Scholar of International Politics and Foreign Policy.
- Abbravanel, Evelyn G.** (1977). B.A., J.D., Case Western Reserve University; Professor of Law.
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- Tuggle, Francis Douglas** (1990), S.B., Massachusetts Institute of Technology; M.S., Carnegie Institute of Technology; Ph.D., Carnegie-Mellon University; Professor of Management and Dean of the Kogod College of Business Administration.
- Turaj, Frank** (1965), B.A., M.A., University of Connecticut; Ph.D., Brown University; Professor of Literature.
- Tyson, Brady B.** (1959), B.A., Rice University; B.D., Southern Methodist University; Ph.D., The American University; Professor Emeritus of International Politics and Foreign Policy.
- Ungar, Sanford J.** (1986), A.B., Harvard College; M.Sc., The London School of Economics and Political Science; Professor and Dean of the School of Communication.
- Van der Slice, Austin** (1946), B.A., M.A., University of Kansas; Ph.D., University of Pennsylvania; Professor Emeritus of Sociology.
- Vaughn, Robert G.** (1972), B.A., J.D., University of Oklahoma; LL.M., Harvard University; Professor of Law.
- Viano, Emilio C.** (1970), B.A., Gregoriana University; M.A., University of Notre Dame; Ph.D., New York University; Professor of Justice.
- Vidal, Pedro** (1990), B.A., M.A., The American University; Instructor of Language and Foreign Studies.
- Vilakazi, Absolom L.** (1965), B.A., Ph.D., University of Natal; M.A., Hartford Seminary Foundation; M.A., Trinity College; Professor Emeritus of International Service and Anthropology.
- Volkema, Roger J.** (1988), B.A., Western Michigan University; M.S., Ph.D., University of Wisconsin-Madison; Associate Professor of Business Administration.
- Volkering, Fred A.** (1988), B.S., Illinois Institute of Technology; M.S., Ph.D., University of Illinois; Assistant Professor of Physics.
- Vrenios, Elizabeth Ann** (1967), B.M., University of the Pacific; M.L.M., Northwestern University; Professor of Performing Arts.
- Wachtel, Howard M.** (1969), B.S., Temple University; M.A., University of Connecticut; Ph.D., University of Michigan; Professor of Economics.
- Wadsworth, Lawrence W.** (1957), B.S., Centenary College; M.A., Tulane University; Ph.D., The American University; Grazer Memorial Professor Emeritus of International Service.
- Waldepurger, Theresa** (1993), B.A., Ursinus College; M.S., Ph.D., Georgetown University; Assistant Professor of Language and Foreign Studies.
- Walker, Milledge P.** (1960), B.A., Williams College; M.A., Ph.D., University of California at Berkeley; Professor Emeritus of International Service and Government and Public Administration.
- Wallace, Perry** (1992), B.S., Vanderbilt University; J.D., Columbia University; Professor of Law.
- Wang, Ferdinand** (1990), B.A., Ph.D., Rice University; Assistant Professor of Mathematics and Statistics.
- Wapner, Paul** (1991), B.A., University of Colorado; M.A., University of Chicago; M.A., Ph.D., Princeton University; Assistant Professor of International Politics and Foreign Policy.
- Wassil, Edward A., Jr.** (1985), B.S., Fairfield University; M.B.A., Ph.D., University of Maryland; Associate Professor of Business Administration.
- Waters, Paul F.** (1965), B.S., University of Scranton; Ph.D., Rutgers State University; Professor Emeritus of Chemistry.
- Waterston, Albert** (1970), B.A., New York University; M.A., Columbia University; Professor Emeritus of Economics.
- Weaver, Gary R.** (1968), B.A., M.A., Ph.D., The American University; Professor of International Politics and Foreign Policy.
- Weaver, James H.** (1963), B.S., B.A., University of Arkansas; Ph.D., University of Oklahoma; Professor Emeritus of Economics.
- Wechsler, Burton D.** (1979), B.A., University of Michigan; J.D., Harvard University; Professor of Law.
- Weekes, Margaret A.** (1992), B.A., Mount Holyoke College; J.D., Boston University; Assistant Professor of Justice.
- Weeks, Dudley** (1989), B.A., Duke University; M.A., University of Texas; Ph.D., University of Hawaii; Assistant Professor of Comparative and Regional Studies.
- Weiner, Ronald I.** (1972), B.A., University of Maryland; M.S.W., Howard University; D.S.W., University of Maryland; Professor of Justice.
- Weisbrot, Mark** (1993), B.A., University of Illinois; M.A., Ph.D., University of Michigan; Assistant Professor of Economics.
- Weiss, Stanley J.** (1968), B.A., City College of New York; M.A., Ph.D., The Ohio State University; Professor of Psychology.
- Weisbrod, Carol S.** (1973), B.S., Tufts University; M.A., Ph.D., Northwestern University; Associate Professor and Chair of Department of Psychology.
- Welt, Isaac D.** (1964), B.Sc., M.Sc., McGill University; Ph.D., Yale University; Professor Emeritus of Computer Science and Information Systems.
- White, Charles S.J.** (1971), B.A., University of Wisconsin; M.A., University of the Americas; M.A., Ph.D., University of Chicago; Professor and Chair of Department of Philosophy and Religion.
- White, John A.** (1966), B.A., Oberlin College; M.S., Ph.D., Yale University; Professor of Physics.
- Williams, Brett** (1976), B.A., Tufts University; Ph.D., University of Illinois; Professor of Anthropology and American Studies.
- Williams, Joan C.** (1982), B.A., Yale University; J.D., Harvard University; M.C.P., Massachusetts Institute of Technology; Professor of Law.
- Williams, Wendy** (1989), B.A., Colby College; M.A., The American University; Assistant Professor of Communication.
- Williamson, Donald T.** (1985), B.A., Hamilton College; M.B.A., Cornell University; J.D., Cornell Law School; LL.M., Georgetown University; C.P.A.; Associate Professor of Business Administration.
- Willoughby, John A.** (1979), B.A., University of Michigan; B.A., Cambridge University; Ph.D., University of California at Berkeley; Associate Professor of Economics and Director of American Studies Program.
- Wilson, Larman C.** (1968), B.A., Nebraska State University; M.A., Ph.D., University of Maryland; Professor of Comparative and Regional Studies.
- Wilson, Richard J.** (1989), B.A., DePauw University; J.D., University of Illinois; Professor of Law.
- Winston, Judith** (1990), B.A., Howard University; J.D., Georgetown University; Associate Professor of Law.
- Wisman, Jon D.** (1971), B.A., University of Maryland; Diplôme, University of Strasbourg; Ph.D., The American University; Professor of Economics.

**Wiaman, Josette A.** (1973), Licencees Lettres, University of Strasbourg; M.A., The American University; Ph.D., The Catholic University of America; Associate Professor of Language and Foreign Studies.

**Wolf, Michael** (1993), B.A., Emory University; J.D., Georgetown University Law Center; A.M., Ph.D., Harvard University; Visiting Professor of Law.

**Wolfson, Lewis W.** (1969), B.A., Dartmouth College; M.S., Columbia University; M.A., Harvard University; Professor of Communication.

**Wrathall, C. Richard** (1974), B.S., M.S., Ph.D., University of Utah; Associate Professor of Biology.

**Wu, Angela** (1980), B.S., Villanova University; M.S., Cornell University; Ph.D., University of Maryland; Professor of Computer Science and Information Systems.

**Wu, Xiaohui** (1993), B.S., Beijing Normal University; M.S., Beijing University; The American University; Instructor of Mathematics and Statistics.

**Wythe, Zoe** (1948), B.A., M.A., The George Washington University; Associate Professor Emerita of Language and Foreign Studies.

**Yaeger, Philip** (1994), B.S., University of Rhode Island; M.B.A., Fairleigh Dickinson University; Ph.D., Walden University; Assistant Professor of Accounting.

**Yamauchi, Joanne S.** (1970), B.A., Goucher College; M.A., Columbia University; Ph.D., Northwestern University; Professor of Communication.

**Yarnall, Shirley** (1959), B.A., Wilson College; Associate Professor Emerita of Literature.

**Yates, Brian T.** (1976), B.A., University of California, San Diego; Ph.D., Stanford University; Associate Professor of Psychology.

**Young, Gloria** (1988), B.A., Trinity University; M.A., University of Houston; Ph.D., University of Texas, Austin; Assistant Professor of Sociology.

**Young, Louise M.** (1958), B.A., Ohio Wesleyan University; M.A., Ph.D., The Pennsylvania State University; Professor Emerita of Literature.

**Zaharna, Rhonda** (1990), M.Ed., Ed.D., Columbia University; Assistant Professor of Communication.

**Zakhar, Beatrix A.** (1991), B.A., Wilkes College; M.A., Ph.D., University of Pennsylvania; Assistant Professor of Justice in Washington Semester Program.

**Zalesch, Saul** (1994), J.D., University of Maryland; M.A., Ph.D., University of Delaware; Assistant Professor of Art.

**Zapatka, Francis E.** (1959), A.B., Fordham University; M.A., Trinity College; Ph.D., The Catholic University of America; Associate Professor of Literature.

**Zauderer, Donald G.** (1970), B.S., The Ohio State University; M.A., Kent State University; Ph.D., Indiana University; Associate Professor of Public Administration.

**Zelle, Ann** (1986), B.A., Mount Holyoke College; M.A., Pius XII Institute, Italy; Associate Professor of Communication.

## LIBRARIANS WITH FULL-TIME FACULTY STATUS

**Arnold, George D.** (1971), B.A., Seminary of St. Pius X; M.L.S., University of Maryland; Librarian.

**Balsh, Mary Alice** (1991), B.A., St. Joseph College; Ed.M., State University of New York at Buffalo; M.L.S., Rutgers State University; Assistant Librarian.

**Blaes, Evelyn B.** (1980), M.A., Edinburgh University; M.L.S., Simmons College; Associate Librarian.

**Box, Krista** (1992), B.A., Trinity College, M.L.S., Indiana University; Assistant Librarian.

**Carroll, Elizabeth** (1991), B.A., Connecticut College; M.S., University of Illinois, Urbana-Champaign; Assistant Librarian.

**Caterson, Martha A.** (1991), B.A., M.L.S., Rutgers State University; Assistant Librarian.

**Chase, Linda S.** (1985), A.B., Oberlin College; M.S.L.S., Columbia University; Associate Librarian.

**Dennis, Donald D.** (1971), A.B., Bowdoin College; B.A., M.L.S., University of California at Berkeley; Librarian Emeritus.

**Flug, Janice Lynn** (1972), B.A., Hamline University; M.L.S., University of Maryland; M.P.A., The American University; Librarian.

**Goldstein, Helen** (1985), B.A., The American University; M.L.S., University of Maryland; Associate Librarian.

**Heintz, James R.** (1969), B.S., Loyola College; M.A., The American University; M.L.S., University of Maryland; Librarian.

**Heywood, John Q.** (1987), B.S., Northern Arizona University; M.A., J.D., Washington College of Law; Assistant Law Librarian.

**Ives, Helen** (1991), B.A., Swarthmore College; M.A., University of Pittsburgh; M.L.S., Rutgers State University; Assistant Librarian.

**Kehoe, Patrick E.** (1973), B.C.S., Seattle University; J.D., M.L.Lib., University of Washington; Professor of Law and Director of Law Library.

**Labaree, Robert** (1991), B.A., University of Nebraska at Lincoln; M.L.S., Louisiana State University; Assistant Librarian.

**Lewis, Christopher** (1992), B.A., University of Cincinnati; M.L.S., Indiana University; Assistant Librarian.

**McCann, Gary Lee** (1979), B.A., California State University at Fullerton; J.D., Willamette University; M.L.S., University of Texas; Associate Director of Law Library.

**Milam, Margaret Mitchell** (1971), B.A., M.L.S., University of Maryland; J.D., The American University; Associate Director of Law Library.

**Mintz, Mary M.** (1984), B.A., Davidson College; M.A., North Carolina State University; M.S.L.S., University of North Carolina at Chapel Hill; Associate Librarian.

**Neilson, Susan H.** (1968), B.A., Keuka College; M.S.L.S., Drexel Institute of Technology; Associate Librarian.

**Nibley, Elizabeth B.** (1988), B.A., The George Washington University; M.L.S., University of Maryland; Associate Librarian.

**Reynolds, Sally Jo** (1965), B.A., University of Michigan; M.S.L.S., Columbia University; Librarian.

**Ryan, William T.** (1990), B.A., Boston University; M.L.S., University of Maryland; J.D., Washington College of Law; Assistant Law Librarian.

**Sandique-Owens, Amelia A.** (1980), B.S., M.A., University of Santo Tomas, Manila; M.S., Georgetown University;

M.S.L.S., The Catholic University of America; Associate Law Librarian.

**Schwartz, Maria Joan** (1988), B.A., Boston University; M.S., Simmons College; M.Phil, The George Washington University; Associate Law Librarian.

**Shapiro, Martin P.** (1990), B.A., University of Missouri; M.A., University of Kansas; M.L.S., University of Pittsburgh; Assistant Librarian.

**Vierra, Patricia** (1991), B.A., California State University; M.L.I.S., University of California at Berkeley; Assistant Librarian.

**Vogelsong, Diana** (1975), B.A., Kalamazoo College; M.L.S., University of Maryland; M.A., The American University; Librarian.

**Ward, Patricia** (1989), B.A., Seattle University; M.A.T., Antioch Graduate School; A.M.L.S., University of Michigan; University Librarian.

**Zich, Joanne A.** (1983), A.B., Washington University; M.S., Columbia University; Law Librarian.



Dr. Benjamin Ladner, 13th president of  
The American University

# 1993-1994 Adjunct Faculty

The faculty list below covers the 1993-1994 academic year only.

**Abbott, Paola** (1988), M.A., The Catholic University of America; Professorial Lecturer of Language and Foreign Studies.

**Abu Diab, Tawfiq** (1993), B.S., Bir Zeit University; M.S., The American University; Lecturer of Mathematics.

**Acevedo, Domingo** (1985), J.D., Universidad Buenos Aires; M.C.L., Georgetown Law Center; Ph.D., University of Cambridge; Adjunct Professor of Law.

**Adams, David G.** (1986), B.A., University of Southwestern Louisiana; J.D., New York University; Adjunct Professor of Law.

**Ahern, Mary P.** (1993), B.A., Clarke University; B.A., Marquette University; E.D.S., The George Washington University; Professorial Lecturer of Education.

**Akins, John** (1994), B.A., Harvard University; M.A., University of South Carolina; Lecturer of Literature.

**Akresh, Abraham D.** (1994), B.B.A., M.B.A., Bernard M. Baruch College; Distinguished Adjunct Professor of Accounting.

**Alaghand, Haasan** (1989), B.S., M.B.A., Boston University; J.D., The American University; Lecturer of Law.

**Albright, David** (1994), A.B., Indiana University; Ph.D., Columbia University; Adjunct Professor of Government.

**Alden, Judith A.** (1987), B.S., Kent State University; M.A., Northeastern University; M.B.A., The George Washington University; Lecturer of Business Administration.

**Alexander, Kirsten** (1993), B.A., New York University; M.F.A., The American University; Lecturer of Literature.

**Allen, William** (1992), B.A., Gettysburg College; M.S.W., Washington University; J.D., St. Louis University; Adjunct Professor of Law.

**Allison, Linda** (1991), B.S., Indiana University; M.M., The University of Washington; Professorial Lecturer of Performing Arts.

**Alpern, Anita** (1979), B.A., University of Wisconsin; Distinguished Adjunct Professor in Residence of Public Administration.

**Alston, Frank** (1992), B.A., North Carolina Central University; Lecturer of Public Administration.

**Altenhofel, Jennifer** (1994), B.A., M.A., California State University; Lecturer of History.

**Amerasinghe, Chittharanjan F.** (1993), B.A., LL.B., Ph.D., LL.D., Cambridge University; LL.M., Harvard University; Ph.D., University of Ceylon; Professorial Lecturer of Law.

**Anderson, Betsy** (1992), B.S., University of Hartford; M.A., The American University; Lecturer of Mathematics.

**Anderson, Norma Jean** (1991), B.S., M.Ed., Ed.D., University of Illinois; Lecturer of Public Administration.

**Andrews, Lynnwood** (1990), B.A., Mt. Holyoke College; M.A., Ph.D., The American University; Professorial Lecturer of Psychology.

**Angelino, Charles** (1994), B.S., Fordham University; Lecturer of Business Administration.

**Anthony-Buckman, Jane** (1985), B.F.A., Marymount College of Virginia; M.F.A., The American University; Professorial Lecturer of Art.

**Aplin, Donald** (1987), B.A., Pomona College; J.D., Antioch University; Professorial Lecturer of Law.

**Argoff, Jeanne** (1994), B.A., M.A., University of California, Berkeley; Ph.D., University College of Dublin; Professorial Lecturer of Literature.

**Arnold, George** (1987), B.A., Seminary of St. Pius X; M.L.S., University of Maryland; Adjunct Professor of Communication.

**Arnold, Talmi** (1994), B.A., M.A., The American University; Lecturer of Education.

**Arnsen, Cynthia J.** (1991), B.A., Wesleyan University; M.A., Ph.D., The Johns Hopkins University; Professorial Lecturer of International Service.

**Atkins, Reynolds** (1988), B.S., University of Kansas; M.S., The American University; Lecturer of Business Administration.

**Austern, David T.** (1980), B.A., University of Pennsylvania; LL.B., Yale University; Adjunct Professor of Law.

**Austin, Steven** (1993), B.A., University of Richmond; M.Div., Southern Baptist Theological Seminary; M.A., Louisiana State University; Lecturer of Anthropology.

**Auten, Janet** (1991), B.A., University of Michigan; M.A., University of Missouri; M.A., Ph.D., Bowling Green State University; Professorial Lecturer of Literature.

**Arvanitopoulos, Constantine** (1990), B.A., Pantelon University; M.A., Ph.D., The American University; Professorial Lecturer of Government.

**Asali, Muna** (1994), B.A., Georgetown University; M.F.A., The American University; Lecturer of Literature.

**Atiyah, Wadhi** (1991), B.A., M.B.A., The American University; Lecturer of Management.

**Awad, Ahmed** (1992), B.S., Alexandria University; M.S., Ohio University; M.S., The Pennsylvania State University; M.S., Boston University; Lecturer of Computer Science and Information Systems.

**Azkoul, Jad** (1993), B.A., M.A., American University of Beirut; Adjunct Professor of Music.

**Bachner, David** (1991), B.A., Bates College; M.S., University of Cleveland; Ph.D., Case Western Reserve University; Professorial Lecturer of International Service.

**Bair, Gary** (1989), B.A., Tulane University; J.D., Georgetown University; Adjunct Professor of Law.

**Band, Joseph** (1975), B.S., M.A., J.D., The American University; Professorial Lecturer of Business Administration.

**Banner, James M.** (1993), B.A., Yale University; M.A., Ph.D., Columbia University; Adjunct Professor of History.

**Barbera, Mary Ellen** (1993), J.D., University of Maryland; Adjunct Professor of Law.

**Baron, Denis** (1990), B.S., Fordham University; M.A., Columbia University; Lecturer of Economics.

**Bartlett, Joan** (1992), B.A., The University of Vienna; M.Ed., Ph.D., Howard University; Professorial Lecturer of Education.

**Baxter, Sandra** (1993), B.A., University of Chicago; M.A., The American University; Ph.D., University of Michigan; Adjunct Professor of Justice, Law and Society.

**Beard, DeLawrence** (1991), B.A., University of Missouri; J.D., University of Baltimore; LL.M., Georgetown University; Professorial Lecturer of Law.

**Beck, Allen** (1994), B.A., University of Wisconsin-Madison; M.A., McGill University, Montreal; Ph.D.,

- University of Michigan; Adjunct Professor of Justice, Law and Society.
- Beck, Tom** (1992), M.F.A., University of Maryland; Professorial Lecturer of Sociology and Communication.
- Bell, Rosalyn** (1991), J.D., National University; LL.M., University of Virginia; Adjunct Professor of Law.
- Bemley, Jesse** (1992), B.S., Mississippi Valley State University; M.S., The American University; Ph.D., Pacific Western University; Professorial Lecturer of Computer Science.
- Bennrich, Yukiko** (1991), B.A., Tokyo National University of Education; Lecturer of Language and Foreign Studies.
- Benson, Sandra D.** (1989), B.A., Baylor University; M.A., J.D., The American University; Lecturer of Law.
- Berenson, William M.** (1984), A.B., Dartmouth College; M.A., Ph.D., Vanderbilt University; Adjunct Professor of Law.
- Berman, Alan L.** (1989), B.A., The Johns Hopkins University; M.A., Ph.D., The Catholic University of America; Distinguished Adjunct Professor of Psychology.
- Bermant, Ozzie** (1991), B.S., City University of New York; M.S., The American University; Professorial Lecturer of Public Administration.
- Bernsen, Sam** (1984), B.A., New York State University; LL.B., Brooklyn Law School; Adjunct Professor of Law.
- Bershon, Barbara L.** (1987), B.S., M.A., The Ohio State University; Ph.D., University of Maryland; Professorial Lecturer of Psychology.
- Beyers, John** (1993), B.S., Towson State University; Lecturer of Mathematics and Statistics.
- Biggs, Gonzalo** (1988), M.A., The George Washington University; J.D., University of Chile; Adjunct Professor of International Service.
- Binder, Sarah** (1993), B.A., Yale University; Lecturer of Government.
- Blair, Randall H.** (1993), B.A., Dartmouth College; M.A., The American University; Lecturer of Sociology and Communication.
- Blake, Angela** (1994), B.A., University of Sussex, England; Lecturer of History.
- Block, Cielie** (1990), M.A., Queens College, New York; Ph.D., Catholic University; Professorial Lecturer of Education and Director of Teacher Education and Student Services.
- Blodgett, Steven A.** (1981), B.S., M.A., Central Michigan University; Professorial Lecturer of International Service.
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- Bowen, Susan** (1985), B.B.A., The George Washington University; Lecturer of Computer Science and Information Systems.
- Brackshaw, Susan L.** (1986), B.A., University of Massachusetts; J.D., The American University; Adjunct Professor of Law.
- Bradley, Donald S.** (1993), B.A., California State University; M.A., Ph.D., University of Chicago; Adjunct Professor of Sociology.
- Brandt, Andrew D.** (1993), A.B., Stanford University; J.D., Georgetown University; Professorial Lecturer of Law.
- Brantley, Chris J.** (1989), B.A., Mercer University; M.A., J.D., The American University; Lecturer of Law.
- Braxton, Phyllis** (1990), B.A., M.A., The American University; Ph.D., The Catholic University of America; Lecturer of Literature.
- Breen, Barry** (1990), A.B., Princeton University; J.D., Harvard Law School; Professorial Lecturer of Law.
- Brenner, Arlene** (1994), B.A., B.A., Gallaudet University; Lecturer of Education.
- Brentley, Joyce Ann** (1989), A.B., Oberlin College; J.D., The American University; LL.M., The George Washington University; Professorial Lecturer of Literature.
- Broom, Michael** (1991), B.S., Morgan State University; M.S., The Johns Hopkins University; Ph.D., The Union; Lecturer of Public Administration.
- Brown, Claudene** (1994), ACE Certificate; ACSM Certificate; B.A., Cornell University; CSCS Certificate; Lecturer of Health and Fitness.
- Brown, David C.** (1977), B.A., The American University; M.A., M.Phil., Ph.D., Rutgers State University; Adjunct Professor of Government and Dean of Washington Semester and World Capitals Programs.
- Brown, H. Lowell** (1991), B.A., Syracuse University; J.D., Antioch University; Lecturer of Law.
- Brown, Lucinda** (1993), B.A., University of Illinois; M.P.A., The American University; M.Div., Wesley Theological Seminary; Lecturer of Philosophy and Religion.
- Bryant, Laurie** (1994), B.A., B.S.E., Missouri Western State College; Lecturer of History.
- Brunett, Marie** (1992), B.S., Fairmont State College; M.S., West Virginia University; Lecturer of Mathematics.
- Bugajski, Janus** (1990), B.A., University of Kent; M.Phil., London School of Economics; Lecturer of International Service.
- Bumpass, Tiffin** (1994), B.S., Texas A & M University; M.S., The American University; Lecturer of Health and Fitness.
- Buntaine, Catherine** (1991), B.A., M.A., Yale University; Lecturer of Public Administration.
- Bunton, Jean Marie** (1993), B.A., University of South Carolina; M.A., The American University; Lecturer of Communication.
- Burns, William** (1991), B.S., University of South Alabama; Professorial Lecturer of Communication.
- Burr, William** (1990), B.A., M.A., Ph.D., Northern Illinois University; Professorial Lecturer of History.
- Burrell, Dean L.** (1990), B.S., Cornell University; J.D., The American University; Lecturer of Law.
- Buntaine, Catherine** (1991), B.A., M.P.A., Yale University; Lecturer of Public Administration.
- Butera, Anita** (1992), B.A., M.A., Catania University; Lecturer of Sociology.
- Butler, Leon** (1988), B.S., Howard University; Ph.D. State University of New York at Buffalo; Lecturer of Public Administration.
- Byekwaso, Serapio** (1991), B.S., Makerere University; M.S., The American University; Lecturer of Statistics.
- Byrum, Marni E.** (1988), B.A., Virginia Polytechnic Institute and State University; J.D., Pepperdine University; Lecturer of Law.
- Callifa, Antonio J.** (1993), B.A., University of Texas, Austin; J.D., Yale University; Professorial Lecturer of Law.
- Campany, Richard C., Jr.** (1991), B.S., M.S., University of Utah; Ph.D., The American University; Professorial Lecturer of International Service.
- Canan, Russell F.** (1987), B.A., Syracuse University; J.D., Antioch University; Professorial Lecturer of Law.
- Cao, Zuoyu** (1994), B.A., Beijing Teachers College; M.A., Ph.D., The Pennsylvania State University; Professorial Lecturer of Language and Foreign Studies.

- Carlson, Mary** (1991), B.A., Alverno College; M.S., University of Wisconsin; Lecturer of Education.
- Carnovale, Frank** (1987), B.M., M.M., Peabody Conservatory; Professorial Lecturer of Performing Arts.
- Carpentier, Gary** (1993), B.A., M.B.A., Hofstra University; J.D., University of Tennessee; Adjunct Professor of Law.
- Carpousis, Francis** (1993), B.A., The George Washington University; M.A., The American University; Lecturer of Communication.
- Carrier, Michael** (1994), M.A., University of Essex, England; M.A., Fitzwilliam College, University of Cambridge; P.G.C.E., University of Sheffield; Professorial Lecturer of Language and Foreign Studies.
- Carrington, Maria E.** (1992), B.A., Lemoyne College; M.S., Syracuse University; Ph.D., The American University; Professorial Lecturer of Sociology.
- Carroll, Robert** (1991), B.S., State University of New York at Albany; M.A., Ph.D., Syracuse University; Professorial Lecturer of Public Administration.
- Carter, Patricia** (1990), B.A., M.A., M.A., Ph.D., The George Washington University; Professorial Lecturer of Literature.
- Cartwright, John** (1991), B.A., Michigan State University; M.P.A., University of Michigan; Professorial Lecturer of Public Administration.
- Cave, William** (1991), B.A., LL.B., University of Maryland; Professorial Lecturer of Law.
- Chalfoux, Jeanne** (1963), Diploma, Curtis Institute of Music; Lecturer of Performing Arts.
- Chang-Muy, Fernando** (1991), B.A., Loyola University; M.A., Georgetown University; J.D., Antioch University; Professorial Lecturer of Law.
- Chatterjee, Usasi** (1981), B.A., M.A., University of Kent at Canterbury; Ph.D., McGill University; Professorial Lecturer of Language and Foreign Studies.
- Chaukin, David F.** (1993), B.S., Michigan State University; J.D., University of California at Berkeley; Adjunct Professor of Law.
- Chiricosta, Tracey** (1992), A.B., Smith College; M.S., Rensselaer Polytechnic Institute; Lecturer of Computer Science and Information Systems.
- Chomo, Grace V.** (1992), B.S., M.S., Ph.D., North Carolina State University; Professorial Lecturer of Economics.
- Choudhry, Yusuf** (1991), B.E., East Pakistan Engineering University; M.B.A., Ph.D., Syracuse University; Adjunct Professor of Business Administration.
- Clancy, James** (1990), B.A., University of Dayton; M.A., Pepperdine University; M.S., The American University; Professorial Lecturer of Computer Science and Information Systems.
- Claudy, Lynn D.** (1984), B.A., B.S., Washington University; M.S., Illinois Institute of Technology; Professorial Lecturer of Physics.
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## Index of Courses and Course Number Prefixes

## Index by Course Number Prefix

Teaching Unit	Page
American Studies (02) . . . . .	243
Anthropology (03) . . . . .	244
Art: Art History (07) . . . . .	249
Art: Studio (05) . . . . .	248
Audio Technology (50) . . . . .	335
Biology (09) . . . . .	252
Business Administration	
Accounting and Taxation (14) . . . . .	262
Finance and Real Estate (13) . . . . .	260
International Business (12) . . . . .	259
Management (10) . . . . .	255
Marketing (11) . . . . .	258
MBA (18) . . . . .	278
Chemistry (15) . . . . .	265
Communication (17) . . . . .	269
Computer Science (40) . . . . .	326
Economics (19) . . . . .	281
Education (21) . . . . .	287
English Language Institute (74) . . . . .	373
Government (53) . . . . .	339
Health and Fitness (49) . . . . .	333
History (29) . . . . .	300
Information Systems (55) . . . . .	349
Interdisciplinary Studies (75) . . . . .	375
International Service (33) . . . . .	308
Jewish Studies (34) . . . . .	317
Justice, Law and Society (73) . . . . .	369
Language and Foreign Studies	
Advanced and Topics (37) . . . . .	319
Elementary and Intermediate (36) . . . . .	319
Linguistics (38) . . . . .	323
Literature (23) . . . . .	292
Mathematics (41) . . . . .	329
Performing Arts: Music, Theatre, Dance, and Arts Management (67) . . . . .	363
Performing Arts: Applied Music (68) . . . . .	368
Philosophy (60) . . . . .	355
Physics (51) . . . . .	336
Psychology (57) . . . . .	351
Public Administration (54) . . . . .	344
Religion (61) . . . . .	358
Sociology (65) . . . . .	360
Statistics (42) . . . . .	331
Study Abroad (92, 93, 94, 95) . . . . .	375
University Honors (01) . . . . .	243
Washington Semester (56) . . . . .	351
Women's Studies (76) . . . . .	375

Prefix	Teaching Unit	Page
01	University Honors . . . . .	243
02	American Studies . . . . .	243
03	Anthropology . . . . .	244
05	Art: Studio and Design . . . . .	248
07	Art: Art History . . . . .	249
09	Biology . . . . .	252
10	Business Administration: Management . . . . .	255
11	Business Administration: Marketing . . . . .	258
12	Business Administration: International Business . . . . .	259
13	Business Administration: Finance and Real Estate . . . . .	260
14	Business Administration: Accounting and Taxation . . . . .	262
15	Chemistry . . . . .	265
17	Communication . . . . .	269
18	Business Administration: MBA . . . . .	276
19	Economics . . . . .	281
21	Education . . . . .	287
23	Literature . . . . .	292
29	History . . . . .	300
33	International Service . . . . .	308
34	Jewish Studies . . . . .	317
36	Language and Foreign Studies: Elementary and Intermediate . . . . .	319
37	Language and Foreign Studies: Advanced and Topics . . . . .	319
38	Language and Foreign Studies: Linguistics . . . . .	323
40	Computer Science . . . . .	326
41	Mathematics . . . . .	329
42	Statistics . . . . .	331
49	Health and Fitness . . . . .	333
50	Audio Technology . . . . .	335
51	Physics . . . . .	336
53	Government . . . . .	339
54	Public Administration . . . . .	344
55	Information Systems . . . . .	349
56	Washington Semester . . . . .	351
57	Psychology . . . . .	351
60	Philosophy . . . . .	355
61	Religion . . . . .	358
65	Sociology . . . . .	360
67	Performing Arts: Dance, Music, Theatre, and Arts Management . . . . .	363
68	Performing Arts: Applied Music . . . . .	368
73	Justice, Law and Society . . . . .	369
74	English Language Institute . . . . .	373
75	Interdisciplinary Studies . . . . .	375
76	Women's Studies . . . . .	375
92-95	Study Abroad . . . . .	375



- Academic Calendar**, 9, 76
- Academic Integrity Code**, 78
- Academic standards and regulations**, 73–80
  - graduate, 40
  - undergraduate, 18
- Accounting**
  - B.S.B.A., 176
  - courses, 262
  - M.B.A., 179
  - M.S., 181
- Accounts, Office of Student**, 4
- Accreditation**, 6
- Add/drop course**, 75
- Administration, university**, 413
- Admission, graduate**
  - application dates, 31
  - nondegree status, from, 32, 44
  - readmission, 32
  - requirements, 31
- Admission, international student**, 45
- Admission, undergraduate**
  - advanced placement, 13
  - application dates, 11
  - early, 11
  - early decision, 11
  - nondegree status, from, 14, 44
  - part-time, 14
  - readmission, 14
  - requirements, 12
  - transfer, 13
- Admission, Washington College of Law**, 220
- Adult and Continuing Education**, 231–235
- Advanced placement**, 13
- Advancement to candidacy**
  - graduate, 38
- Advising**
  - academic, 73
  - College of Arts and Sciences academic, 82
- All but dissertation (ABD) Master's**, 41
- Alumni audit**, 76
- American Politics**
  - Washington Semester, 207, 238
- American Studies**
  - B.A., 83
  - courses, 243
  - minor, 84
  - programs, 83
- Anthropology**
  - B.A., 84
  - B.A./M.A., 85
  - courses, 244
  - M.A., 86
  - minor, 85
  - Ph.D., 86
  - programs, 84
- Anthropology, Applied**
  - B.A./M.A., 85
  - M.A., 86
  - minor, 85
- APEL (Assessment of Prior Experiential Learning)**, 231
- Arabic**
  - courses, 319
- Art**
  - B.F.A., 90
  - facilities, 3
  - M.F.A., 92
  - programs, 87
- Art History**
  - B.A., 87
  - courses, 249
  - M.A., 91
  - minor, 90
- Art, Studio and Design**
  - B.A. in Design, 88
  - B.A. in Studio Art, 89
  - courses, 248
  - minor in Design, 90
  - minor in Studio Art, 91
- Arts and Sciences, The College of**, 81–163
- Arts Management**
  - courses, 363
  - graduate certificate, 142
  - M.A., 141
  - programs, 137
- Associate in Arts (A.A.) degree**, 15, 82, 232
- Athletics**, 3
- Attendance, class**, 78
- AU-Ritsumeikan (Japan) Exchange**, 193
- Audio Technology**
  - B.S., 92
  - courses, 335
  - minor, 93
  - program, 92
- Audit**
  - alumni program, 76
  - registration, 76
  - undergraduate program, 76
- Awards and fellowships, undergraduate**, 21
- Bachelor's degrees**, 15
- Bachelor's/master's degrees**, 15
- Banking facilities**, 4
- Beijing Semester**, 239
- Biology**
  - B.S., 94
  - B.S./M.S., 95
  - courses, 252
  - M.A., 96
  - M.S., 95
  - minor, 95
  - programs, 93, 95
- Board of Trustees**, 413
- Broadcast media**
  - A-TV, 68
  - WAMU-FM, 3
  - WVAU-FM & AM, 68
- Brussels Semester**, 239

# Index

- Budapest Semester, 239
- Buenos Aires Semester, 240
- Business Administration
  - B.S.B.A., 174
  - courses, 255, 276
  - J.D./M.B.A., 182
  - M.B.A., 178
  - M.S., 181
  - minor, 178
  - programs, 173
- Business Administration, Kogod College of, 173–183
- Business Council for International Understanding Institute (BCIU), 242
- Business Management Information Systems
  - M.B.A., 179
- Calendar**, academic, 9, 76
- Campaign Management Institute, 205
- Campus
  - description, 1
- Campus Ministries, 65
  - See also Kay Spiritual Life Center
- Campus Store, 4
- Cancellation of charges, 51
- Cancellation of classes, emergency, 78
- Cancellation of courses, 78
- Career Services, 71
- Certificate Programs
  - credit, 234
- Certification of enrollment, 74
- Certification, Secondary Education, 115
- Chemistry
  - B.S., 98
  - B.S./M.S., 99
  - courses, 265
  - M.S., 99
  - minor, 99
  - Ph.D., 100
  - programs, 97
- Child Development Center, 4
- Chinese
  - courses, 319
- Cinema Studies
  - B.A. in Literature: Cinema Studies, 131
  - minor, 131
- Class attendance, 78
- Class periods, 78
- Class standing
  - undergraduate, 18
- CLEG (Communication, Legal Institutions, Economics, and Government)
  - B.A., 206
- CLEP (College Level Examination Program), 13
- College Mathematics and Quantitative Competency Requirement, 17
- College Writing and English Competency Requirement, 17
- Commencement
  - participation in, 75
- Communication
  - courses, 269
  - minor, 169
  - programs, 165
- Communication Media, Foreign Language and B.A., 227
- Communication, International
  - M.A., 196
- Communication, Legal Institutions, Economics, and Government (CLEG)
  - B.A., 206
- Communication, School of, 165–172
- Communication: Journalism
  - B.A., 166
- Communication: Journalism and Public Affairs
  - M.A., 169
  - weekend M.A. program, 171, 234
- Communication: Public Communication
  - B.A., 167
  - M.A., 171
  - weekend M.A. program, 172, 233
- Communication: Visual Media
  - B.A., 167
- Community Service Learning Projects, 77
- Community Studies certificate program, 231
- Comparative and Regional Studies
  - M.A. in International Affairs, 194
- Competency requirements, 17
- Comprehensive examinations, graduate, 38
- Computer Information Systems
  - See also Information Systems
  - B.S., 102
  - minor, 103
- Computer Science
  - B.S., 103
  - B.S./M.S., 104
  - B.S./M.S. in Mathematics and, 104
  - courses, 326
  - M.S., 105
  - M.S. in Statistical Computing, 161
  - minor, 104
- Computer Science and Information Systems
  - programs, 101
- Computing Center, University, 2
- Conduct
  - code of student, 79
- Confidentiality of student records, 78
- Congressional and Presidential Studies, Center for, 204
- Consortium of Universities of the Washington Metropolitan Area, 3
  - libraries, 76
  - registration, 76
- Continuing Education, 231
- Cooperative Education Program, 61, 237
  - courses, 243
- Copenhagen Semester, 240
- Counseling, personal, 63
- Course numbering system, 77

- Creative Writing
  - M.F.A., 132
- Credit for Life Experience, 231
- Credit hour requirement
  - graduate, 38
  - undergraduate, 16
- Credit hour values, 77
- Czech
  - courses (study abroad), 319
- Dance**
  - courses, 363
  - facilities, 3
  - graduate certificate, 142
  - M.A., 141
  - minor, 139
  - programs, 137
- Dean's list
  - undergraduate, 20
- Declaration of major, 15
  - College of Arts and Sciences, 82
- Deferred matriculation
  - SIS master's programs, 192
- Degree requirements, university
  - graduate, 38
  - undergraduate, 16
- Degrees
  - See also Fields of study
  - undergraduate, 15
- Degrees conferred, 1992–1993, 6
- Design
  - B.A., 88
  - minor, 90
- Development Banking
  - M.A., 111
- Development Management
  - M.A., 198
- Dining services, 4
- Disabilities
  - learning-disabled program, 12
  - program accessibility for students with, 64
- Disability Support Services, 64
- Dismissal
  - graduate academic, 40
  - undergraduate academic, 19
- Dissertations, 39
- Distributed Science
  - B.S., 123
- Eagle** (student newspaper), 69
- Economic Development Management
  - M.B.A., 179
- Economic Policy
  - Washington Semester, 109, 238
- Economic Theory
  - B.A., 108
- Economics
  - B.A., 107
  - B.A./M.A., 110
  - courses, 281
  - M.A., 111
  - M.A. in Development Banking, 111
  - minor, 110
  - Ph.D., 112
  - programs, 107
- Economics, Applied
  - graduate certificate, 113
  - M.A., 110
- Education
  - Bachelor's/M.A., 116
  - courses, 287
  - Ed.D., 119
  - M.A., 117
  - M.A.T., 118
  - minor in Special Education, 116
  - Ph.D., 119
  - programs, 113
  - Secondary Education Certification, 115
- Education Studies
  - minor, 116
- Elementary Education
  - B.A., 114
  - M.A., 118
- English as a Second Language
  - programs, 241
- English Competency and College Writing
  - Requirement, 17
- English Language Institute
  - admission, 47, 241
  - certificate program, 241
  - courses, 373
  - programs, 241
  - support program, 241
- English language requirement
  - international students, 46
- Enrollment, 1993–1994, 6
- Entrepreneurship and Management
  - M.B.A., 180
- Environmental Science
  - minor, 95
- Environmental Studies
  - B.A., 221
- Equivalency diplomas, 13
- Evaluation of progress
  - undergraduate, 18
- Examinations
  - final, 77
  - graduate comprehensive, 38
- Faculty**, 1, 5
  - adjunct, 1993–1994, 394
  - College of Arts and Sciences, 81
  - full-time, 1993–1994, 377
  - librarians, 392
  - research, 1993–1994, 412
  - School of International Service, 185
  - School of Public Affairs, 204
- Fees
  - special fees, 50

# Index

- Fields of study
  - changes in graduate, 41
  - changes in undergraduate, 18
  - graduate, 8
  - undergraduate, 7, 15
- Film and Video
  - M.A., 172
- Finance
  - B.S.B.A., 176
  - courses, 260
  - M.B.A., 180
- Financial aid
  - American University programs, 54
  - federal, 54
  - graduate, 53, 60
  - grants, 54
  - loans, 54
  - state, 54
  - tuition exchange program, 56
  - undergraduate, 52
  - veterans' benefits, 61
  - Washington College of Law, 61
  - work-study, 54
- Fine Arts
  - B.F.A., 90
  - M.F.A., (art), 92
  - M.F.A., (creative writing), 132
- Foreign Language and Communication Media
  - B.A., 227
- Foreign students
  - See International Student Information
- Fraternities, 69
- French
  - B.A., 126
  - courses, 319
  - M.A., 128
  - minor, 128
- French/Europe, Language and Area Studies:
  - B.A., 224
  - minor, 226
- Freshman forgiveness, 19
- General Education Program, 18, 23-29
- German
  - B.A., 126
  - courses, 321
  - minor, 128
- German/Europe, Language and Area Studies:
  - B.A., 224
  - minor, 226
- Global South, Center for the Study of the, 193
- Government
  - See also Political Science
  - courses, 339
  - programs, 205
- Grade point average, 73
  - graduate, 38
  - undergraduate, 17
- Grades
  - changes in, 74
  - grading system, 73
  - incomplete, 74
  - pass-fail, 74
- Grading system, 73
- Graduate credit
  - for undergraduates, 19
- Graduate Student Council, 68
- Graduate study, 31, 32, 38, 39, 40, 41
  - College of Arts and Sciences, 83
  - Kogod College of Business Administration, 178
  - School of Communication, 169
  - School of International Service, 186
  - School of Public Affairs, 204
- Graduation
  - application for, 74
- Graduation rate, undergraduate, 6
- Grants
  - federal, 54
  - residence hall advisers, 61
  - state, 54
  - university, 56
- Greek Affairs, 64
- Health and Fitness
  - courses, 333
  - M.S. in Health/Fitness Management, 120
  - programs, 120
- Health Center, Student, 66
- Health Fitness, National Center for, 3, 120
- Health Insurance
  - international students, 46
  - student, 67
- Hebrew
  - courses, 322
- Hindi
  - courses, 322
- Hindu Tradition, History of Religions:
  - M.A., 144
- History
  - B.A., 121
  - B.A./M.A., 122
  - courses, 300
  - M.A., 122
  - minor, 122
  - Ph.D., 123
  - programs, 121
- History of Religions: Hindu Tradition
  - M.A., 144
- Holidays, 77
- Honors Program, University, 20
- Honors, graduation
  - Latin honors, 21
  - University Honors, 21
- Housing
  - off-campus, 64
  - on-campus, 65
- Human research subjects, protection of, 40

- Human Resource Management
  - M.B.A., 180
- Human Resource Management, Personnel and
  - M.S., 218
- Hungarian
  - courses (study abroad), 322
- Immunizations**, required, 67
- Incomplete grades, 74
- Independent reading and study courses, 77
- Information and Off-Campus Housing Resource
  - Center, 64
- Information Resources Management (IRM)
  - graduate certificate, 106
- Information Systems
  - B.S. in Computer Information Systems, 102
  - B.S./M.S., 104
  - courses, 349
  - graduate certificate, 106
  - M.S., 105
  - minor in Computer Information Systems, 103
  - programs, 101
  - weekend M.S. program, 106, 234
- Institute for Learning in Retirement, 235
- Insurance
  - international student health, 46
  - student health, 67
- Intercultural organizations, 68
- Interdepartmental Science
  - programs, 123
- Interdisciplinary studies
  - B.A. or B.S., 227
  - College of Arts and Sciences, 82
  - courses, 375
  - M.A. or M.S., 229
  - minor, 228
  - programs, 221-229
- International Affairs
  - J.D./M.A. in Law and, 199
  - M.A., 193
- International Business
  - B.S.B.A., 176
  - courses, 259
  - M.B.A., 180
- International Business and Trade
  - Washington Semester, 177, 238
- International Communication
  - M.A., 196
- International Development
  - M.A., 196
- International Development Management
  - graduate certificate, 199
- International Economic Policy
  - M.A. in International Affairs, 195
- International Environment and Development
  - Washington Semester, 238
- International Politics
  - M.A. in International Affairs, 193
- International Politics and Foreign Policy
  - Washington Semester, 191, 238
- International Relations
  - Ph.D., 200
- International Service, School of, 185-201
  - courses, 308
- International Student Information, 45-47
  - admission, 45
  - English language requirement, 45, 48
  - health insurance, 46
  - registration, 46
  - visa requirements, 46
- International Studies
  - B.A., 187
  - B.A./M.A., 192
  - minor, 191
- International-Intercultural Student Services (OIS), 84
- Italian
  - courses, 322
- Japanese**
  - courses, 322
- Japanese/Asla, Language and Area Studies
  - minor, 228
- Jewish Studies
  - B.A., 125
  - courses, 317
  - minor, 125
  - programs, 124
- Journalism Semester, Washington, 169, 238
- Judicial Affairs and Mediation Services, 65
- Justice
  - B.A., 210
  - minor, 212
- Justice Semester, Washington, 212, 238
- Justice, Law and
  - J.D./M.S., 213
- Justice, Law and Society
  - B.A./M.S., 212
  - courses, 369
  - M.S., 212
  - programs, 209
- Kay Spiritual Life Center**, 65
- Key Executive Program, 215
- Kogod College of Business Administration, 173-183
- Laboratories**
  - computer, 2
  - language, 2
  - science, 2
- Language and Area Studies
  - B.A., 224
  - minor, 226
- Language and Foreign Studies
  - courses, 319
  - programs, 126
- Language Resource Center, 2
- Latin
  - courses, 322

# Index

## Latin America, Spanish/, Language and Area Studies:

B.A., 224

minor, 226

## Law and Business

J.D./M.B.A., 182

## Law and International Affairs

J.D./M.A., 199

## Law and Justice

J.D./M.S., 213

## Law and Society

B.A., 211

## Law, Washington College of, 219, 220

## Learning Services, 63

## Learning-disabled program, 12

## Leave of absence

graduate, 41

undergraduate, 20

## Liability, university, 78

## Liberal Studies

B.A., 82, 232

## Libraries

consortium of universities, 76

## Library

university, 1

## Linguistics

courses, 322

## Literature

B.A., 130

courses, 292

M.A., 132

M.F.A. in Creative Writing, 132

minor, 131

programs, 130

## Literature: Cinema Studies

B.A., 131

## Living-Learning Center, 83

## Load, academic

graduate, 41

undergraduate, 18

## Loans

federal, 54, 61

university, 54

## Lobbying Institute, 205

## London Semester, 240

## Madrid Semester, 240

## Mail service, 4

## Maintaining matriculation, graduate, 41

## Majors, undergraduate

declaration of, 15

double, 15

interdisciplinary, 16

requirements, 15

## Management

B.S.B.A., 176

courses, 255

## Marketing

B.S.B.A., 177

courses, 258

M.B.A., 180

## Master of Arts in Teaching (M.A.T.), 118

## Mathematics

B.S., 134

B.S./M.A., 135

courses, 329

M.A., 136

minor, 135

programs, 133, 135

## Mathematics and Computer Science

B.S./M.S., 104

## Mathematics and Quantitative Competency

Requirement, College, 17

## Mathematics and Statistics

B.S./M.S., 160

## Mathematics Education

Ph.D., 136

## Mathematics, Applied

B.S., 133

B.S./M.A., 135

## Meal Plan

charges, 50

See also Dining services

## Media Center, 2

## Medical withdrawal policy, 52

## Ministries, Center for Campus, 65

## Minor programs, 16

## Minors, 7

College of Arts and Sciences, 82

## Moscow Semester, 240

## Multicultural Affairs, Office of, 65

## Museum Studies and the Arts

Washington Semester, 238

## Music

B.A., 137

courses, 363

facilities, 3

M.A., 140

minor, 140

programs, 137

## Music, Applied

courses, 368

## Music Theatre

B.A., 138

## Newspaper (*Eagle*), student, 69

## Nondegree, 43, 44

academic standards, 44

admission to degree status, 44

admission to graduate degree status, 32

admission to undergraduate degree status, 14

enrollment, 43

international student enrollment, 45

registration, 44, 75

## Nonthesis options, 39

## Off-Campus Housing Resource Center, 64

## Off-campus study

registration, 76

- Organization Development
  - M.S.O.D., 218
- Organizational Change
  - graduate certificate, 217
- Orientation and Parent Programs, 66
- Painting**
  - M.F.A., 92
- Paris Program, 240
- Parking and Traffic, 4
- Pass-fail, 74
  - undergraduate, 19
- Payment of tuition and fees, 51
- Peace and Conflict Resolution
  - Washington Semester, 191, 239
- Performing Arts
  - courses, 363
  - programs, 137
- Performing Arts: Arts Management
  - M.A., 141
- Performing Arts: Dance
  - M.A., 141
- Performing Arts: Music Theater
  - B.A., 138
- Performing Arts: Theater
  - B.A., 138
- Personnel and Human Resource Management
  - M.S., 218
- Philosophy
  - B.A., 143
  - B.A./M.A., 144
  - courses, 355
  - M.A., 144
  - minor, 143
  - programs, 142
- Philosophy and Social Policy
  - B.A./M.A., 144
  - M.A., 144
- Physics
  - B.S., 145
  - courses, 336
  - M.S., 146
  - minor, 146
  - Ph.D., 147
  - programs, 145
- Polish
  - courses, 324
- Political Science
  - B.A., 205
  - B.A./M.A., 207
  - M.A., 207
  - minor, 207
  - Ph.D., 208
- Prague Semester, 240
- Pre-College Program
  - Washington Summer Seminar, 239
- Pre-engineering program, 147
- Prelaw program, 148
- Premedical program, 149
- Preprofessional programs, 82, 147
- Prerequisites, course, 77
- Printmaking
  - M.F.A., 92
- Probation
  - graduate academic, 40
  - undergraduate academic, 19
- Professional Studies, Weekend and, 233
- Protection of human research subjects, 40
- Provisional standing, graduate, 32
- Psychological and Learning Services, Center for, 63
- Psychology
  - B.A., 150
  - B.A./M.A. in General Psychology, 151
  - courses, 351
  - M.A. in General Psychology, 151
  - minor, 151
  - Ph.D., 152
  - programs, 150
- Public Administration
  - B.A./M.P.A., 214
  - courses, 344
  - graduate certificates, 217
  - Key Executive Program, 215
  - M.P.A., 215
  - minor, 214
  - Organization Development, M.S.O.D., 218
  - Personnel and Human Resource Management, M.S., 218
  - Ph.D., 217
  - programs, 214
- Public Affairs, The School of, 203-218
- Public Financial Management
  - graduate certificate, 217
- Public Management
  - graduate certificate, 217
- Quantitative Methods**
  - minor, 135
- Readmission**
  - graduate, 32
  - undergraduate, 14
- Real Estate
  - courses, 260
  - M.B.A., 181
- Records
  - confidentiality of student, 78
  - student, 74
- Recreation
  - facilities, 3
- Refunds
  - financial aid, 53
  - meal plan, 52
  - room charges, 52
  - tuition and fees, 51
- Registration
  - changes in, 75
  - consortium, 76
  - fees, 50

# Index

- international student, 46
- late, 75
- nondegree, 75
- off-campus, 76
- payment for, 51
- requirements, 75
- student responsibility for, 75
- Regulations
  - graduate academic, 40
  - undergraduate academic, 18
- Religion
  - B.A., 143
  - courses, 358
  - M.A., History of Religions: Hindu Tradition, 144
  - minor, 144
  - programs, 142
- Repetition of courses, 74
- Requirements
  - undergraduate university, 16
- Residence Hall Association (RHA), 68
- Residence Halls, 5
  - charges for, 49
  - regulations for student conduct in, 80
- Residence requirement
  - graduate, 38
  - undergraduate, 16
- Residential Life and Housing Services, Office of, 65
- Responsibility, student, 78
- Return-to-School Programs, 231
- Rights, Responsibilities, and Code of Conduct, 79
- Rome Semester, 240
- Russian
  - B.A., 126
  - courses, 324
  - M.A., 128
  - minor (language), 128
  - minor (studies), 128
- Russian/Latin America Studies, Language and Area Studies:
  - B.A., 224
  - minor, 226
- Santiago Semester, 240
- SAT (Scholastic Assessment Test), 12
- Scholarships
  - graduate honor awards, 60
  - state, 54
  - university, undergraduate, 56
- Sculpture
  - M.F.A., 92
- Secondary Education
  - certification, 115
- Services, on campus, 4
- Sociology
  - B.A., 154
  - B.A./M.A., 155
  - courses, 360
  - M.A., 156
  - minor, 155
  - Ph.D., 156
  - programs, 154
- Sociology, Applied
  - B.A./M.A., 155
  - M.A., 155
- Sociology: Justice
  - Ph.D., 158, 213
- Sororities, 69
- Spanish
  - B.A., 126
  - courses, 325
  - M.A., 128
  - minor, 128
- Spanish/Latin America, Language and Area Studies:
  - B.A., 224
  - minor, 226
- Special Education
  - minor, 116
- Statistical Computing
  - M.S., 161
- Statistics
  - B.S., 159
  - B.S./M.S., 160
  - courses, 331
  - M.S., 161
  - minor, 160
  - Ph.D., 162
  - programs, 159
- Statistics, Applied
  - graduate certificate, 162
- Statistics for Policy Analysis
  - M.S., 162
- Statute of limitations
  - graduate, 41
- Stops, financial, 51
- Student Accounts, Office of, 4
- Student Activities, Office of, 66
- Student Confederation (SC), 68
  - Confederation Media Commission (CMC), 68
  - Inter-Club Council (ICC), 68
  - Student Union Board (SUB), 68
- Student Council, Graduate, 68
- Student Life, Division of, 63
- Student organizations
  - drama and dance, 69
  - Graduate Student Council, 68
  - greek organizations, 69
  - Intercultural organizations, 68
  - media, 69
  - music, 69
  - political, 69
  - professional, scholarly, and honorary societies, 68
  - special interest, 69
  - Student Confederation, 68
- Student Orientation, Advisement, and Registration (SOAR), 66
- Student records, confidentiality of, 78
- Student responsibility, 78

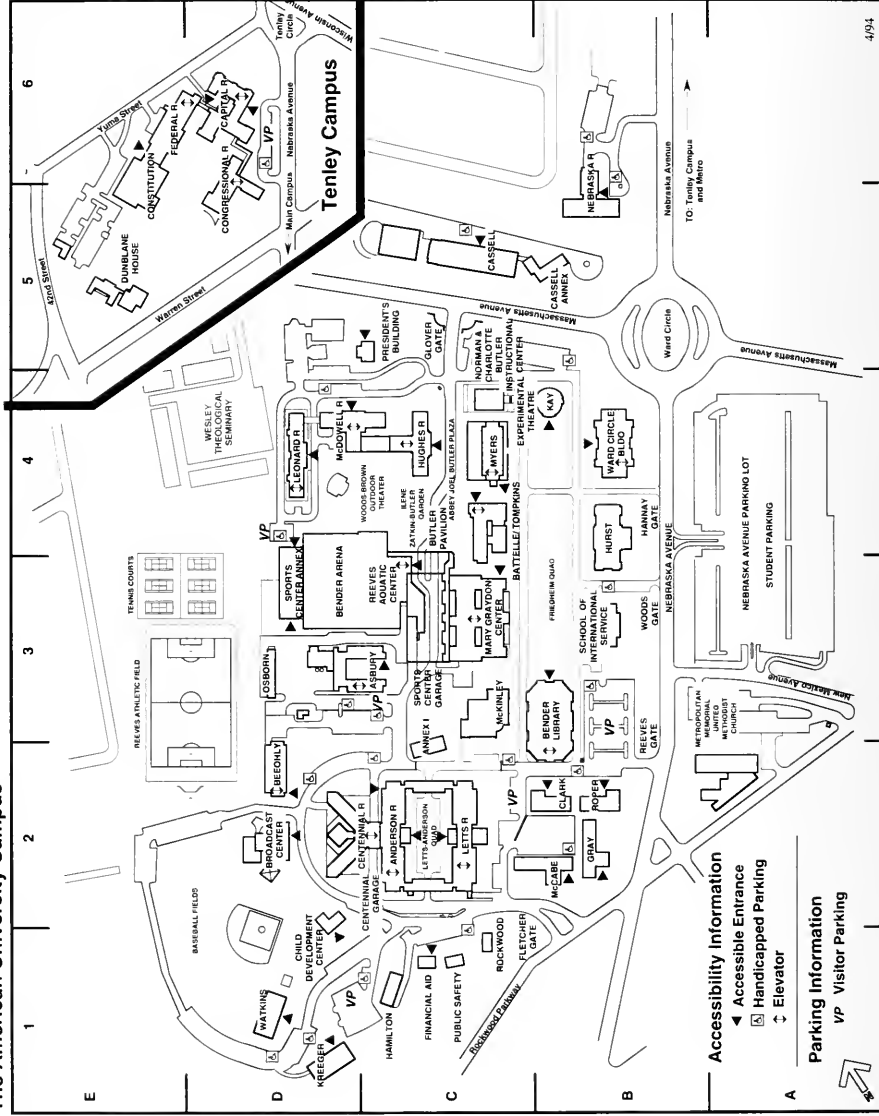


- Student Volunteerism and Community Service, Center for, 86
- Studio Art
  - B.A., 89
  - courses, 248
  - minor, 91
- Study abroad
  - courses, 375
  - programs, 239
  - undergraduate, 20
- Study at another institution
  - graduate, 41
  - undergraduate, 19
- Summer sessions
  - programs, 241
  - study abroad, 242
- Talon** (yearbook), 89
- Taxation
  - courses, 262
  - M.S., 182
- TESOL (Teaching English to Speakers of Other Languages)
  - certificate, 129
  - M.A., 129
- Theatre
  - B.A., 138
  - courses, 363
  - facilities, 3
  - minor, 140
  - programs, 137
- Theses, 39
- TOEFL (Test of English as a Foreign Language), 12, 45
- Tools of research
  - requirement, 38
- Toxicology
  - graduate certificate, 101
  - M.S., 100
- Transcripts, 74
- Transfer of credit
  - from graduate study at another institution, 41
  - graduate, 32
  - nondegree to graduate, 32
  - undergraduate, 14
  - undergraduate from nondegree, 14
  - undergraduate from study abroad, 20
  - undergraduate study at another institution, 19
- Translation
  - graduate certificate, 129
  - undergraduate certificate, 128
- Transportation and Parking, 4
- Trustees, Board of, 413
- Tuition and fees
  - cancellation of charges, 51
  - charges for, 49
  - payment of, 51
  - rate, 49
  - special fees, 50
- Tuition refund insurance, 52
- Uhuru** (African American student newspaper), 69
- Undergraduate study, 11–21
  - College of Arts and Sciences, 82
  - Kogod College of Business Administration, 174
  - School of Communication, 165
  - School of International Service, 186
  - School of Public Affairs, 204
- United States Foreign Policy
  - M.A. in International Affairs, 195
- University administration, 413
- University competency requirements, 17
- University degree requirements
  - graduate, 38
  - undergraduate, 18
- University Honors
  - courses, 243
  - program, 20
  - requirements, 20
- University profile, 4
- Vacations, 77
- Veterans' Benefits, 61
- Vienna Semester, 241
- Visa requirements
  - International students, 46
- Washington College of Law, 219–220
- Washington Semester
  - American Politics, 207, 238
  - courses, 351
  - Economic Policy, 109, 238
  - International Business and Trade, 177, 238
  - International Environment and Development, 238
  - International Politics and Foreign Policy, 191, 238
  - Journalism, 169, 238
  - Justice, 212, 238
  - Museum Studies and the Arts, 238
  - Peace and Conflict Resolution, 191, 239
  - Summer Internship, 239
  - Summer Seminar, 239
- Weekend and Professional Studies, 233
- Withdrawal from the university, 76
- Women's Studies
  - courses, 375
  - minor, 163
  - programs, 163
- Work-Study Program, College, 54
- Work-Study Program, Federal, 61
- Writing and English Competency Requirement, College, 17
- Yearbook** (*Talon*), student, 69





# The American University Campus



## Provost, Office of the President's Bldg C5

C1	Government, Dept. of	Financial Aid Bldg.	C1	Psychological and Learning Services	
C1	Admissions, Office of	Hamilton Building	B4	Mary Graydon Center	
C5	Admissions, Washington College of Law	Graduate Affairs	C3	Psychology, Dept. of	
B6	Caswell Building	Hall	C3	Public Administration, Dept. of	
B4	Alumni Relations	Constitution Bldg.	D3	Public Affairs, School of	
C2	American Studies Program	Hurst Bldg.	B5	Purchasing	
C2	Anderson Hall Computer Complex	Anderson Hall, lower level	C1	Reeves Aquatic Center	
B4	Anthropology, Dept. of	Hurst Bldg.	D3	Registrar	
D1	Armand's Pizza	Bueller Pavilion Promenade	C3	Research, Grants, and Contracts, Office of	
D1	Art, Dept. of	Watkins Art Bldg.	C3	Residence Halls:	
D1	Art Gallery	Watkins Art Bldg.	D4	Anderson	
B2	Arts and Sciences, College of	Gray Bldg. (lobby)	C2	Capital	
B3	Bank	Bueller Pavilion Promenade	D2	Centennial	
B4	Bender Arena	AU Sports Complex	C2	Congressional	
D3	Biology, Dept. of	Hurst Bldg.	B3	Federal	
C3	Bookstore (Campus Store)	Bueller Pavilion, floors 2&3	B2	Residential Life, Office of Housing Services and	
C4	Business Admin., Kogod College of	Battle-Tompkins Bldg.	B2	Security	
C3	Career Center	Bueller Pavilion, floor 5	B4	Shuttle Service	
D3	Cashier	Asbury Bldg.	C4	Sociology, Dept. of	
C2	Central Receiving	Anderson Hall, lower level	C4	Sports and Recreation	
B4	Chapel	Kay Spiritual Life Center	D3	Student Accounts	
D2	Chemistry, Dept. of	Beghly Bldg.	D3	Student Activities	
D2	Child Development Center	Communication, School of	C3	Student Government	
C3	Computer Science and Information Systems, Dept. of	Mary Graydon Center	C3	Student Life, Division of (administrative offices)	
B2	Computing Center, University	Clark Bldg.	C3	Student Life, Division of (administrative offices)	
C3	Continuing Studies	Mary Graydon Center	C3	Students, Dean of	
B5	Contract Education	Nearaska Hall, 1st floor	C3	Theatre	
C3	Cooperative Education	McKinley Building	C3	Travel Office	
C3	Copy Center (Kinko's)	Bueller Pavilion floor 5	C3	University Programs	
B6	Development and University Relations	Constitution Bldg.	C3	University Programs Administration & Advising Center	
B6	Development Office	Constitution Bldg.	C3	University Publications and Printing Office	
C3	Dining Services	Mary Graydon Center	E6	University Relations	
C3	Dye Cleaner	Bueller Pavilion Promenade	E6	WAMU-FM, WVAU-AM	
C3	Eagle (AU newspaper)	Mary Graydon Center	D2	Washington Semester and World Capitals Programs	
C3	Eagles' Nest (store)	Bueller Pavilion Promenade	E5	Wechsler Theatre (Media Center)	
B2	Economics, Dept. of	Roper Bldg.	C3	Women's Studies Program	
C3	Education, School of	McKinley Bldg.	B2	Gray Bldg.	
D3	Employment Services	Sports Center Annex			
C3	English Language Institute	McKinley Bldg.			
D4	Finance and Treasurer, Vice President for	Leonard Hall, lower level			
D4	Leonard Hall, lower level	President's Bldg.			
D4	Off-Campus:				
C2	Glover-Tunlaw Apartments—2725 39th St., NW				
C5	Planning and Institutional Research—Brandywine Bldg., Brandywine Street NW				

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